TAD-M30

SERVICE MANUAL

E Model
Chinese Model

Manufactured under license from Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

Digital inputs	Optical: 1
	Coaxial: 1
Digital outputs	Optical: 1
Audio outputs	Front (L/R)
	Woofer
Continuous RMS power output	
	Front/rear (switchable):50W+50W
	Center: 50W
Peak music power output	1,000W
	(6 Ω at 1kHz, 10% THD)
Speaker impedance	6 to 16 Ω
Tone control	BASS: ±10 dB (center frequency 99 to 992Hz)
	TREBLE: ±10 dB (center frequency 1.0 to 8.6kHz)
Power requirements	110 – 120V/220 – 240V (adjustable with the voltage selector)
Power consumption	120W
Dimensions (w/h/d)	280 × 91 × 350mm
Mass (Approx.)	4.5kg
Supplied accessories	• Remote commander (remote) (1)
	• Size AA (R6) batteries (2)
	• Optical cable (1)
	• Audio cord (1)
	• Audio bus cord (1)
	• Instruction manual (1)

Design and specifications are subject to change without notice.

DIGITAL PROCESSING AMPLIFIER

MICROFILM

SONY®

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

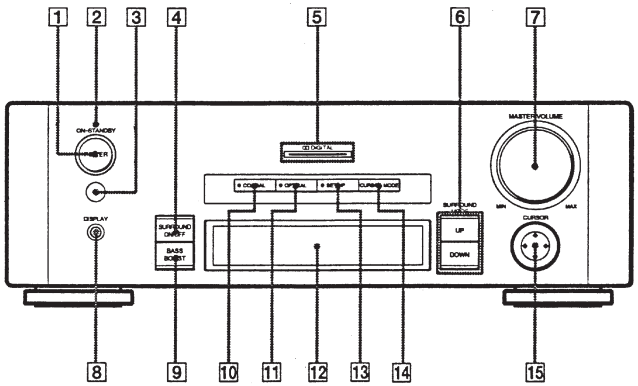
与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

Name and Function of Each Part

Front panel



1 POWER
Turns on the power.

2 ON-STANDBY indicator
Lights red when the processing amplifier is in standby (power-on standby) mode. Goes off when the power is turned on.

3 Remote sensor

4 SURROUND ON/OFF
Applies the surround effects.

5 DD DIGITAL input indicator
Lights when the input audio signal is processed for Dolby Digital while Surround is ON. Does not light even for Dolby Digital DVD software when the input audio signal is processed for Dolby Pro Logic.

6 SURROUND MODE (UP/DOWN)
Selects the surround mode.

7 MASTER VOLUME
Adjusts the volume.

8 DISPLAY
Switches the display between the currently selected surround mode and the input signal (OPTICAL or COAXIAL) each time it is pressed.

9 BASS BOOST
Reinforces the bass sound.

10 COAXIAL
Press to listen to the audio from the component connected to the DIGITAL COAXIAL IN jack.

11 OPTICAL
Press to listen to the audio from the component connected to the DIGITAL OPTICAL IN jack.

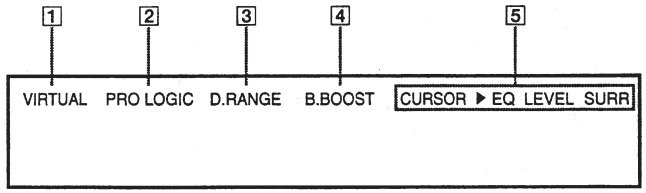
12 Display

13 SET UP
Sets the speaker connection status, position and distance.

14 CURSOR MODE
Selects the "LEVEL ADJUST", "EQUALIZER" or "SURROUND" menu.

15 CURSOR (↑/↓/←/→)
Selects the setting contents after selecting the item to be set with SET UP or CURSOR MODE.

Reading the display



1 VIRTUAL
Lights when the "VIRTUAL ENHANCED", VIR. REAR SHIFT" or "VIR. MULTI REAR" surround mode (see page 26) is selected while Surround is ON.

2 PRO LOGIC
Lights when an input 2ch (front L/R) audio signal is processed by Pro Logic and output as surround sound while Surround is ON.

3 D.RANGE
Lights when "D.RANGE COMP" in the "LEVEL ADJUST" menu selected by CURSOR MODE is set to other than "OFF" (set to compress the dynamic range, see page 30) in order to reduce the volume difference between the high and low volumes, and an audio signal encoded by the Dolby Digital (AC-3) method is input to the processing amplifier.

4 B.BOOST
Lights when BASS BOOST on the front panel of the processing amplifier is pressed to reinforce the bass sound (see page 27).

5 Cursor modes
These light to indicate the CURSOR MODE status. They go off when performing SET UP operations (i.e., setting the speaker connection status).

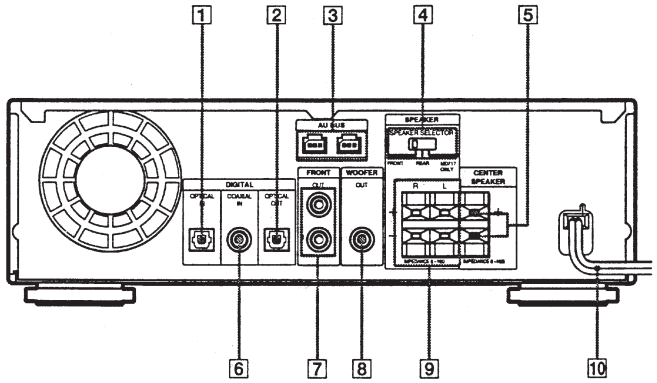
EQ : Appears when adjusting the EQUALIZER (speaker treble and bass frequencies) settings (see page 31).

LEVEL : Appears when adjusting the LEVEL ADJUST (speaker and sub woofer volume balance, LFE MIX, D.RANGE COMP) settings (see pages 27 to 30).

SURR : Appears when adjusting the SURROUND (surround effects) settings (see page 32).

This section is extracted from instruction manual.

Rear panel



1 DIGITAL OPTICAL IN
Connects a DVD player to the processing amplifier using an optical cable.

2 DIGITAL OPTICAL OUT
Connects an MD deck or other digital component when digitally recording the audio from a DVD player. Use an optical cable.

Notes
- If you do not connect the DVD player to the DIGITAL OPTICAL IN jack, sound is not output from the DIGITAL OPTICAL OUT jack.
- Many types of DVD software cannot be digitally recorded. In these cases, an analog recording is made even if the DVD player is connected using an optical cable.
- You cannot digitally record 5.1ch DVD software.

3 AU BUS
Connects the DHC-MD717 stereo system to the processing amplifier.

4 SPEAKER SELECTOR (FRONT, REAR, MD717 ONLY)
Set to "REAR" (or "MD717 ONLY" when using the DHC-MD717) during 5.1ch surround or to "FRONT" during 3.1cn surround.

5 CENTER SPEAKER
Connects the center speaker.

6 DIGITAL COAXIAL IN
Connects a DVD player to the processing amplifier using a coaxial digital connecting cable.

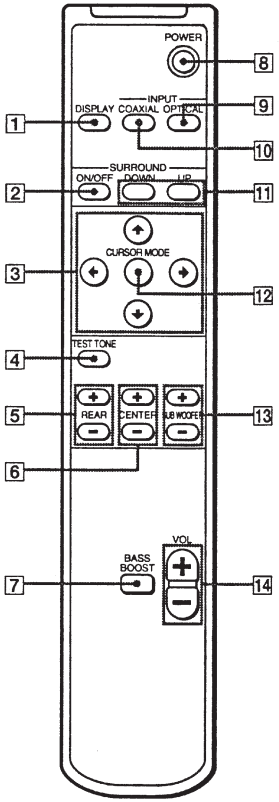
7 FRONT OUT
Connects to the audio input jacks for external components of a stereo system or stereo amplifier during 5.1ch surround.

8 WOOFER OUT
Connects the sub woofer.

9 SPEAKER
Connects the speakers (front or rear).

10 AC power cord

Remote commander



1 DISPLAY
Switches the display between the currently selected surround mode and the input signal (OPTICAL or COAXIAL) each time it is pressed.

2 SURROUND ON/OFF
Applies the surround effects.

3 CURSOR (↑/↓/←/→)
Selects the setting contents after selecting the item to be set with CURSOR MODE.

4 TEST TONE
Outputs the test tone used to adjust the speaker volumes.

5 REAR +/–
Adjusts the rear speaker volume.

6 CENTER +/–
Adjusts the center speaker volume.

7 BASS BOOST
Reinforces the bass sound.

8 POWER
Turns on the power.

9 OPTICAL
Press to listen to the audio from the component connected to the DIGITAL OPTICAL IN jack.

10 COAXIAL
Press to listen to the audio from the component connected to the DIGITAL COAXIAL IN jack.

11 SURROUND UP/DOWN
Selects the surround mode.

12 CURSOR MODE
Selects the "LEVEL ADJUST", "EQUALIZER" or "SURROUND" menu.

13 SUB WOOFER +/–
Adjusts the sub woofer volume.

14 VOL +/–
Adjusts the processing amplifier volume. Changes the overall volume (volume of all the speakers connected to the processing amplifier).

SECTION 2
TEST MODE

[SELF-DIAGNOSIS AND TEST MODE]

The TAD-M30 has self-diagnosis mode and test mode. The TAD-M30 has three test modes: Factory shipment mode, Channel check mode and FL display tube check mode. The self-diagnosis detects DSP errors and returns them automatically, and is performed as a part of the channel check mode. To exit the test mode, press the POWER button again.

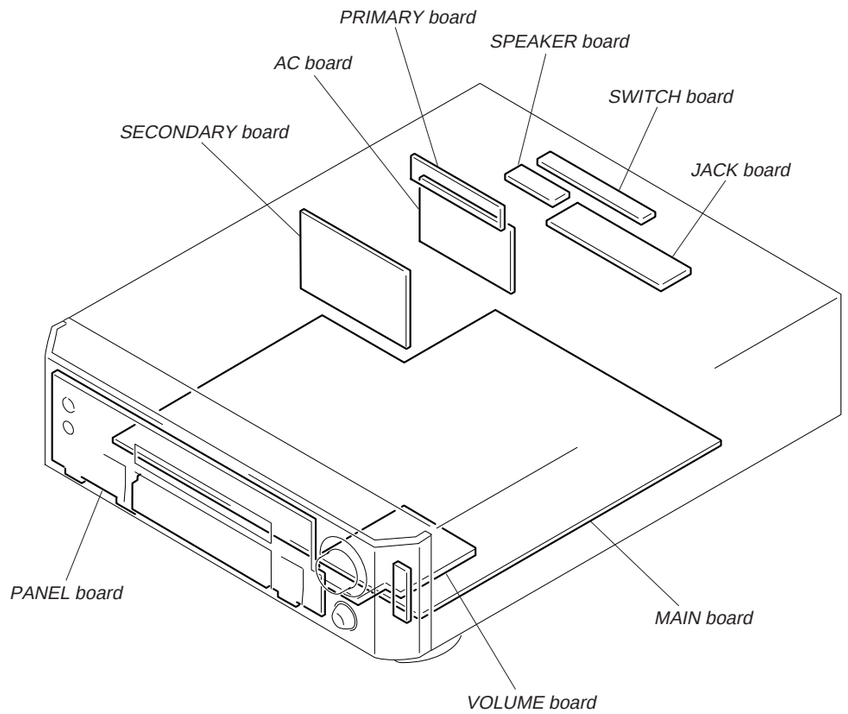
1. Factory Shipment Mode
   When the factory shipment mode is set, the machine settings return to the factory settings. Set this mode before returning the repaired machine to the customer. To set this mode, first remove the AC power cord. Then, while pressing the CURSOR button and the left CURSOR button ← at the same time, connect the AC power cord to the power outlet and press the POWER button. The message "3ch SELF AMP" appears, the machine is set to the factory shipment mode and the factory settings are restored.

2. Channel Check Mode
   When the factory shipment mode is set, the machine settings return to the factory settings. The DSP self-diagnosis is performed as a part of this mode. To perform this self-diagnosis, first remove the AC power cord. Then, while pressing the CURSOR button and the right CURSOR button → at the same time, connect the AC power cord to the power outlet and press the POWER button. The message "3ch SELF AMP" appears then the self-diagnosis is performed. If the DSPs are normal, the message "DSP NO ERROR" appears.

3. FL Display Tube Check Mode
   In this mode, the FL display tubes are checked. To enter this mode, first remove the AC power cord. Then, while pressing the DISPLAY button and BASS BOOST at the same time, connect the AC power cord and press the POWER button. All the lamps and FL display tubes are turned on and the FL display tube check is performed. When any CURSOR button is pressed, the FL display tubes are turned on one after another, then all FL display tubes are turned on again.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

- B+ : B+ Line.
- B− : B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : DIGITAL
  : ANALOG

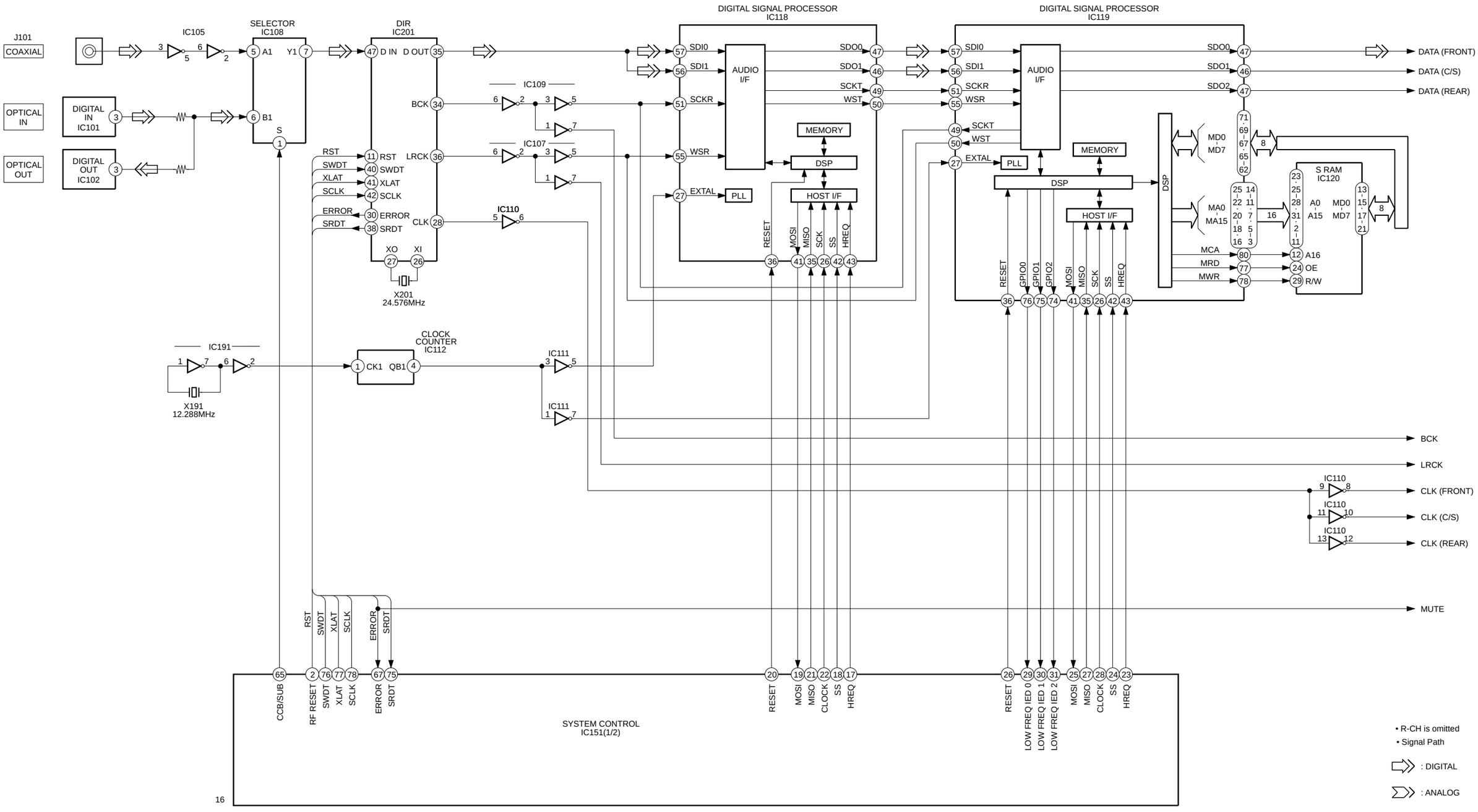
Note on Printed Wiring Boards:

- ○—— : parts extracted from the component side.
- ○ : Through hole.
- ▒▒ : Pattern from the side which enables seeing.

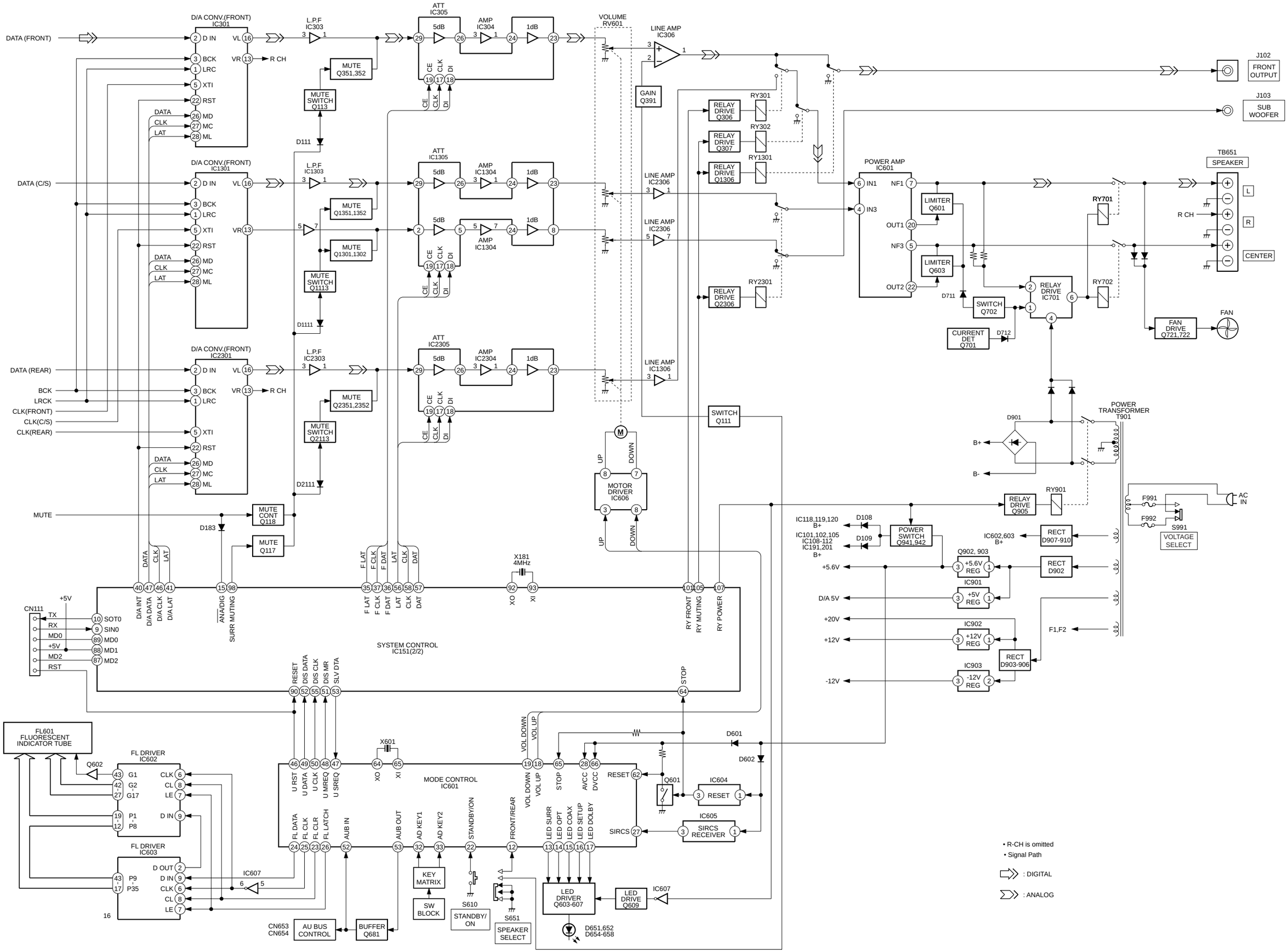
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component A)	Parts on the parts face side seen from the parts face are indicated.

3-2. BLOCK DIAGRAM — DIGITAL SECTION —



3-3. BLOCK DIAGRAM — MAIN SECTION —



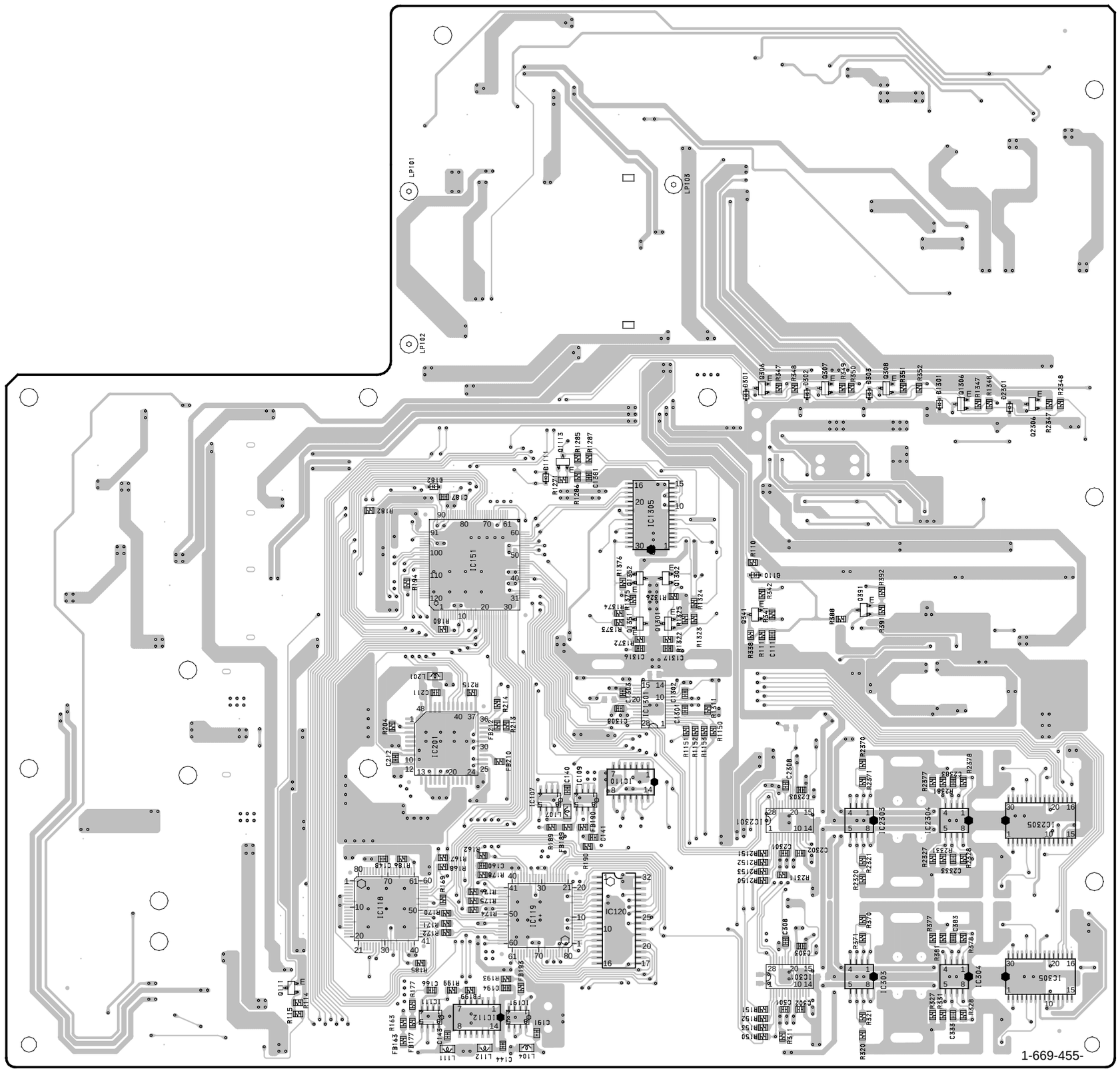
3-4. PRINTED WIRING BOARD — MAIN SECTION (SIDE A) —

• Refer to page 6 for Circuit Boards Location .

• **Semiconductor Location**

Ref. No.	Location
D110	F-8
D182	E-5
D301	D-8
D302	D-9
D303	D-9
D1111	E-6
D1301	D-10
D2301	D-11
IC107	H-6
IC109	H-7
IC110	H-7
IC111	J-5
IC112	J-6
IC118	I-5
IC119	I-6
IC120	I-7
IC151	F-6
IC191	J-6
IC201	H-5
IC301	J-9
IC303	J-9
IC304	J-10
IC305	J-11
IC1301	G-7
IC1305	F-7
IC2301	H-8
IC2303	H-9
IC2304	H-10
IC2305	H-11
Q111	J-4
Q306	D-8
Q307	D-9
Q308	D-9
Q341	F-8
Q391	F-9
Q1113	E-6
Q1301	G-7
Q1302	F-7
Q1306	D-10
Q1351	G-7
Q1352	F-7
Q2306	E-11

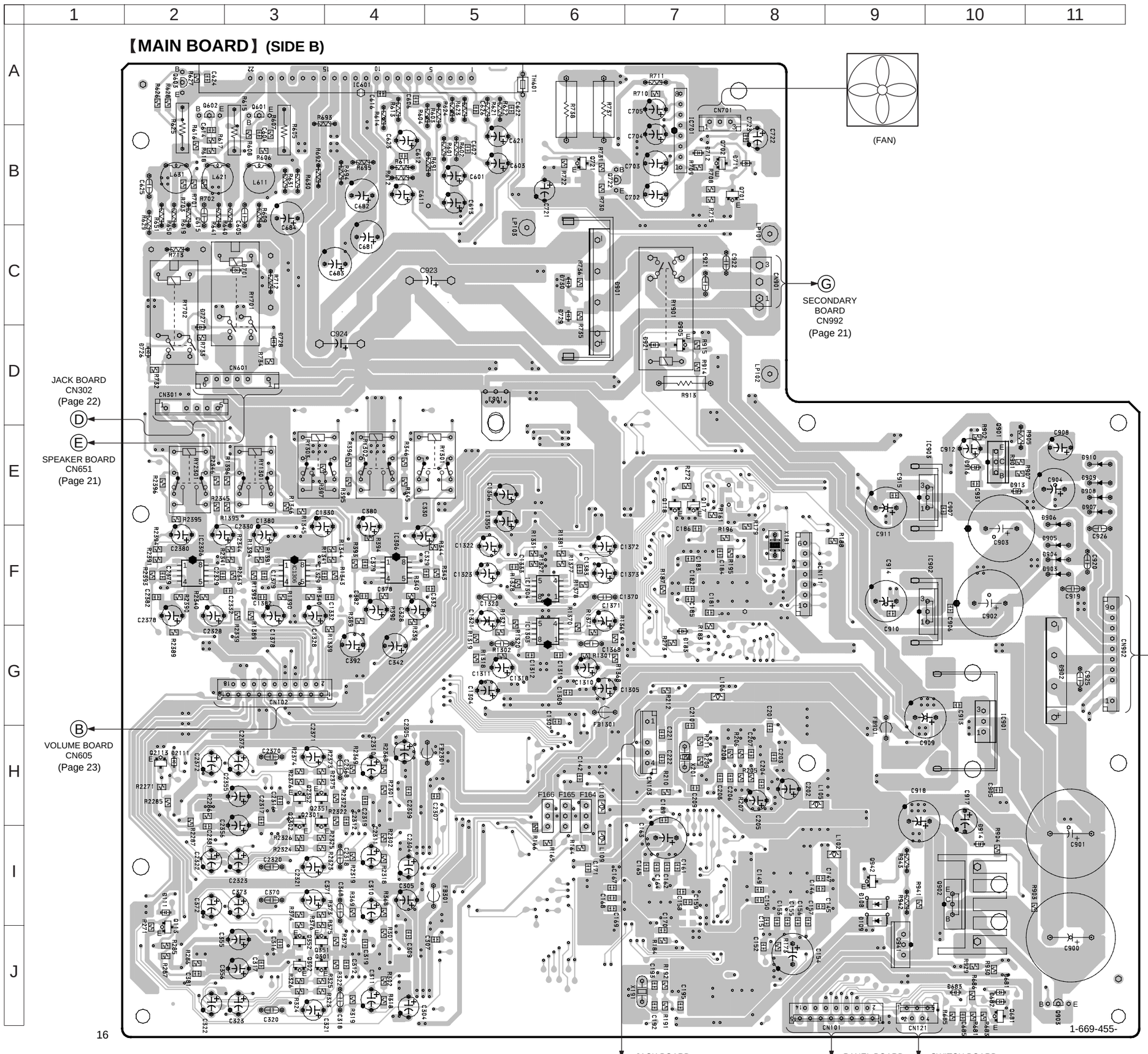
【MAIN BOARD】(SIDE A)



3-5. PRINTED WIRING BOARD — MAIN SECTION (SIDE B) —

• Refer to page 6 for Circuit Boards Location .

【MAIN BOARD】(SIDE B)


(FAN)
SECONDARY BOARD CN992 (Page 21)
JACK BOARD CN302 (Page 22)
SPEAKER BOARD CN651 (Page 21)
VOLUME BOARD CN605 (Page 23)
SECONDARY BOARD CN993 (Page 21)
JACK BOARD CN104 (Page 22)
PANEL BOARD CN601 (Page 24)
SWITCH BOARD CN652 (Page 21)
1-669-455-

• **Semiconductor Location**

Ref. No.	Location
D108	I-9
D109	I-9
D111	I-2
D183	G-7
D681	J-10
D682	J-10
D683	J-10
D701	C-3
D711	B-8
D712	B-7
D726	D-2
D727	C-2
D728	D-3
D729	C-6
D730	C-6
D901	C-6
D902	G-11
D903	F-11
D904	F-11
D905	F-11
D906	E-11
D907	E-11
D908	E-11
D909	E-11
D910	E-11
D913	E-10
D914	I-10
D916	E-10
D921	D-7
D2111	H-2
IC306	F-4
IC601	A-4
IC701	B-7
IC901	G-10
IC902	F-9
IC903	E-9
IC1303	G-6
IC1304	F-6
IC1306	F-3
IC2306	F-2
Q113	J-2
Q117	E-7
Q118	E-7
Q301	J-3
Q302	J-3
Q351	J-3
Q352	J-3
Q601	A-3
Q602	A-2
Q603	A-2
Q681	J-10
Q701	B-8
Q702	B-7
Q721	B-6
Q722	B-6
Q901	E-10
Q902	I-10
Q903	J-11
Q905	D-7
Q941	J-9
Q942	I-9
Q2113	H-2
Q2301	H-3
Q2302	H-3
Q2351	H-3
Q2352	H-3

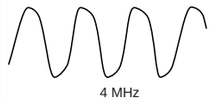
3-6. SCHEMATIC DIAGRAM — DIGITAL SECTION —

• Refer to page 11 for MAIN board Printed Wiring Board . • Refer to pages 21 and 22 for SWITCH, JACK board Printed Wiring Board .
• Refer to page 27 for IC Block Diagrams . • Refer to page 29 for IC Pin Function Description .

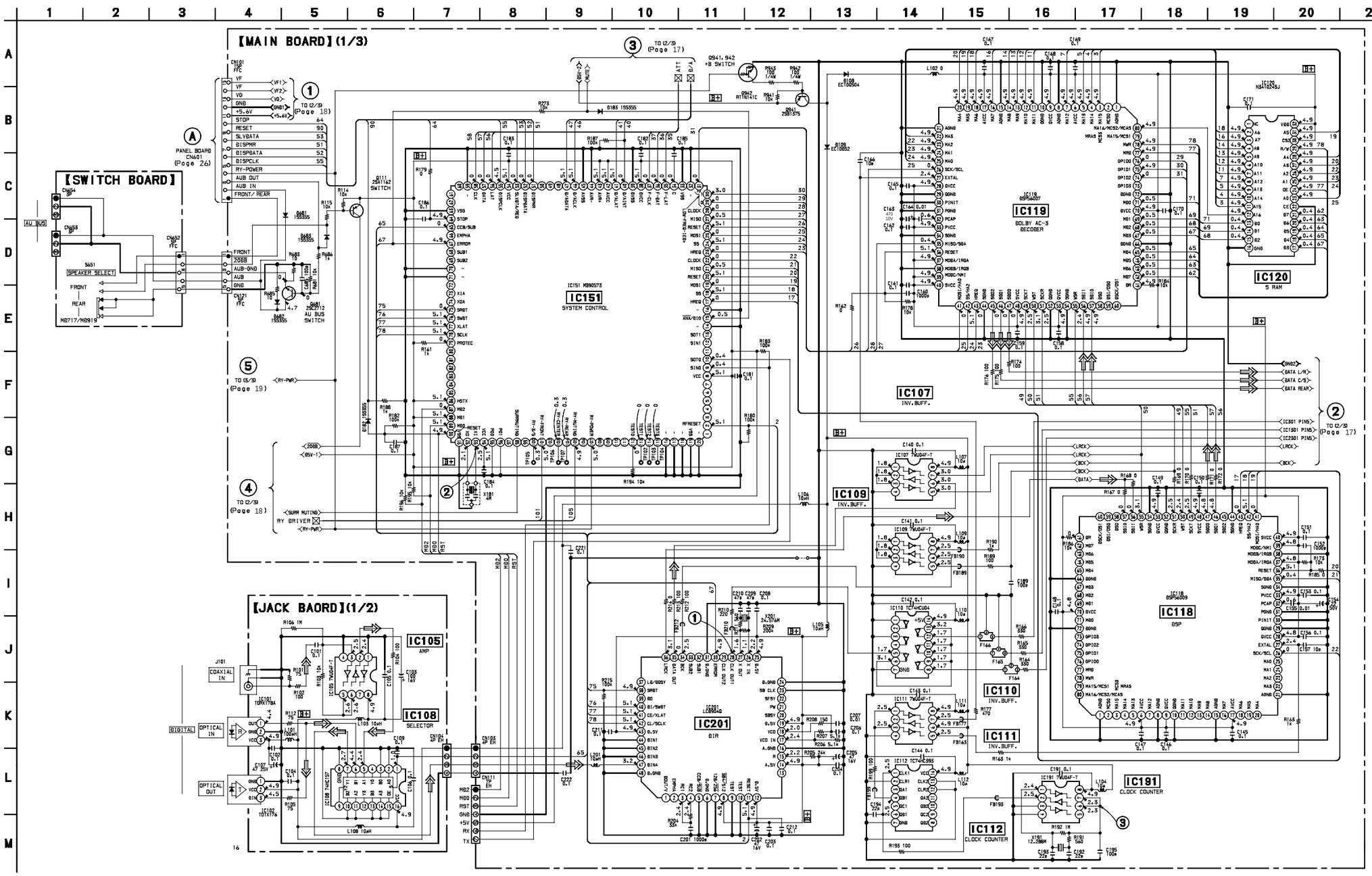
• Waveform

① IC201 ㉘ CLK OUT1

② IC151 ㉝ X1

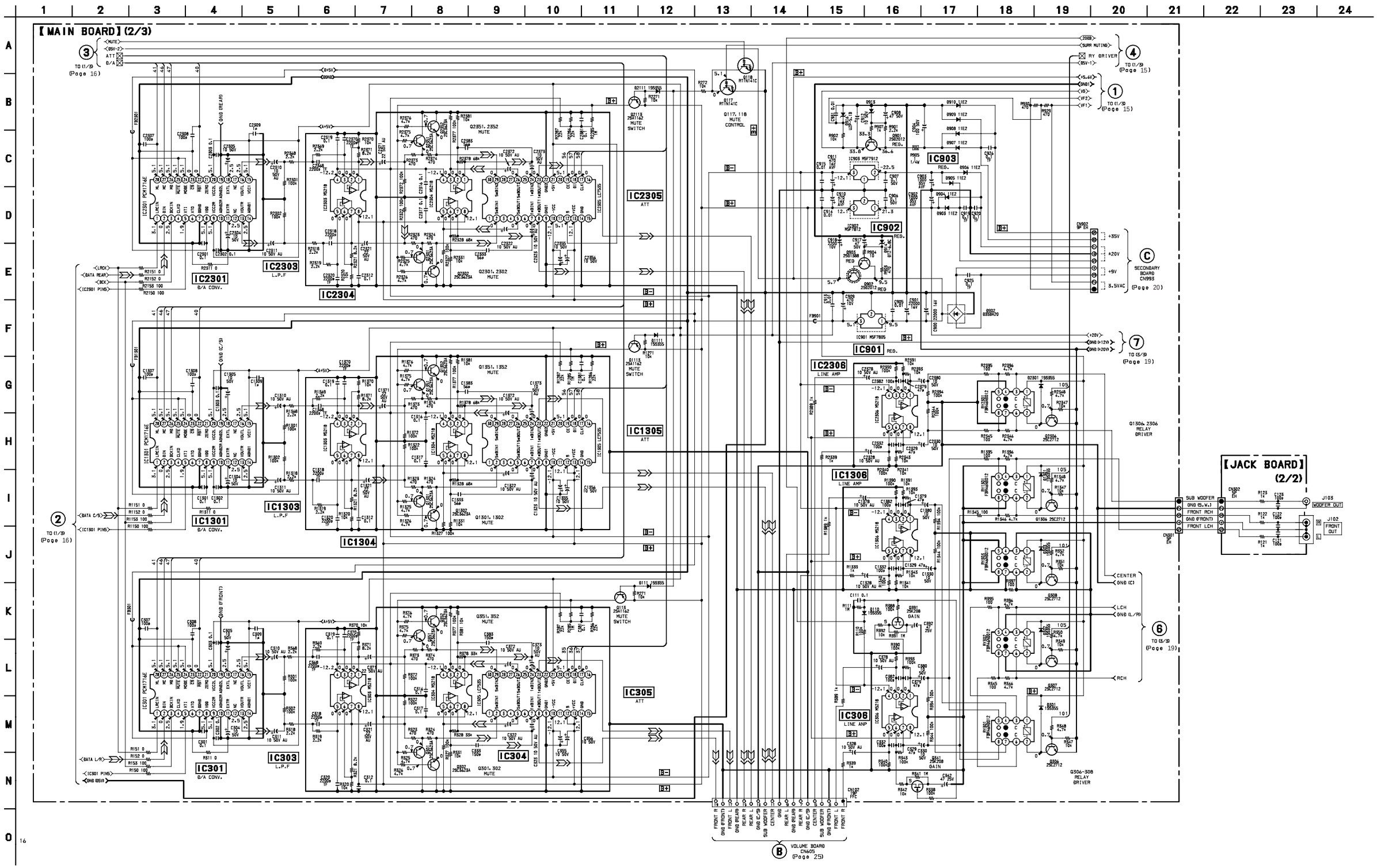


③ IC191 ⑤



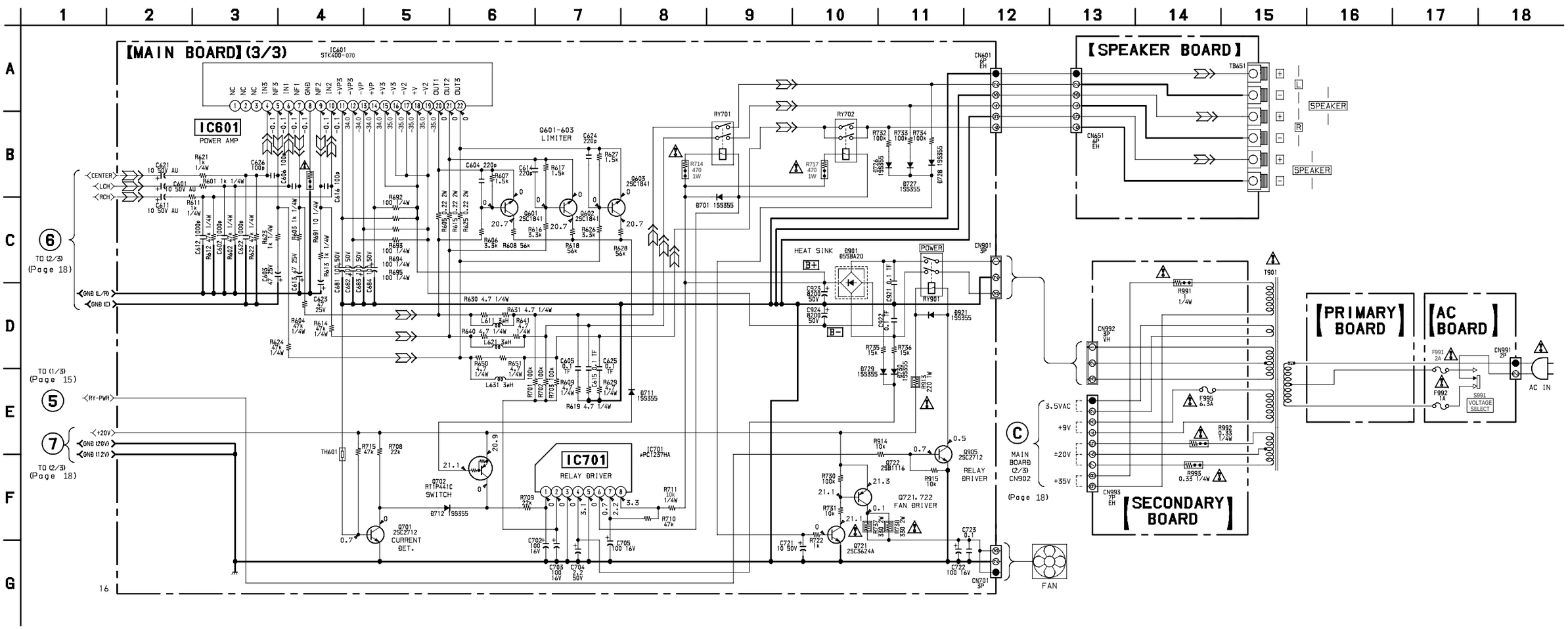
3-7. SCHEMATIC DIAGRAM — D/A SECTION —

• Refer to page 11 for MAIN board Printed Wiring Board . • Refer to page 22 for JACK board Printed Wiring Board .
• Refer to page 27 for IC Block Diagrams .



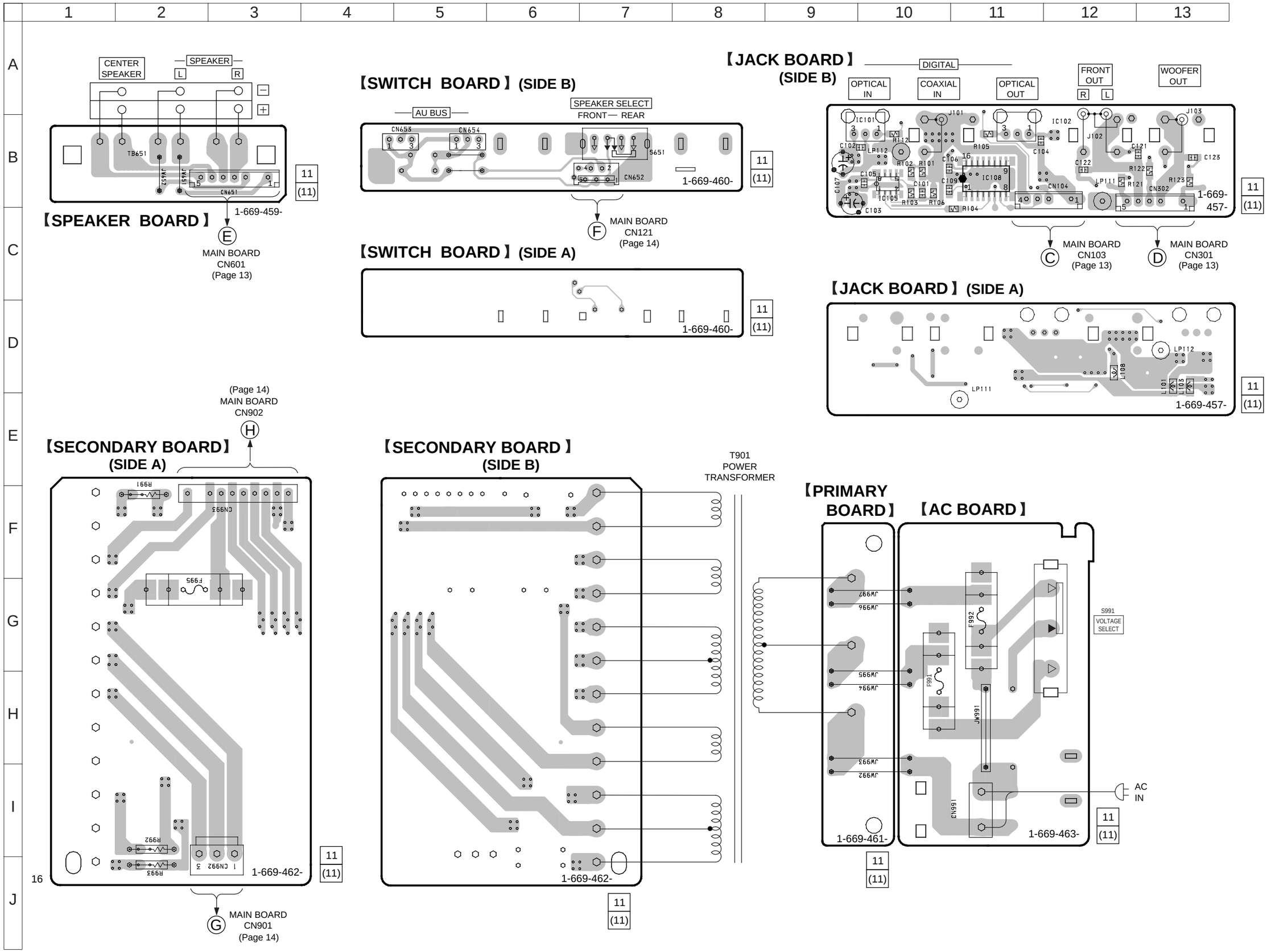
3-8. SCHEMATIC DIAGRAM — POWER SECTION —

• Refer to page 11 for MAIN board Printed Wiring Board .• Refer to page 27 for IC Block Diagrams .



3-9. PRINTED WIRING BOARD — POWER SECTION —

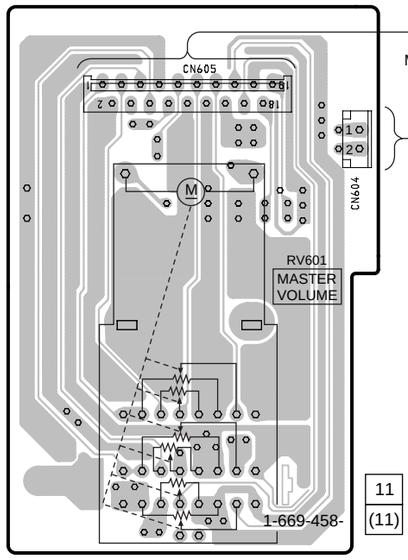
• Refer to page 6 for Circuit Boards Location .



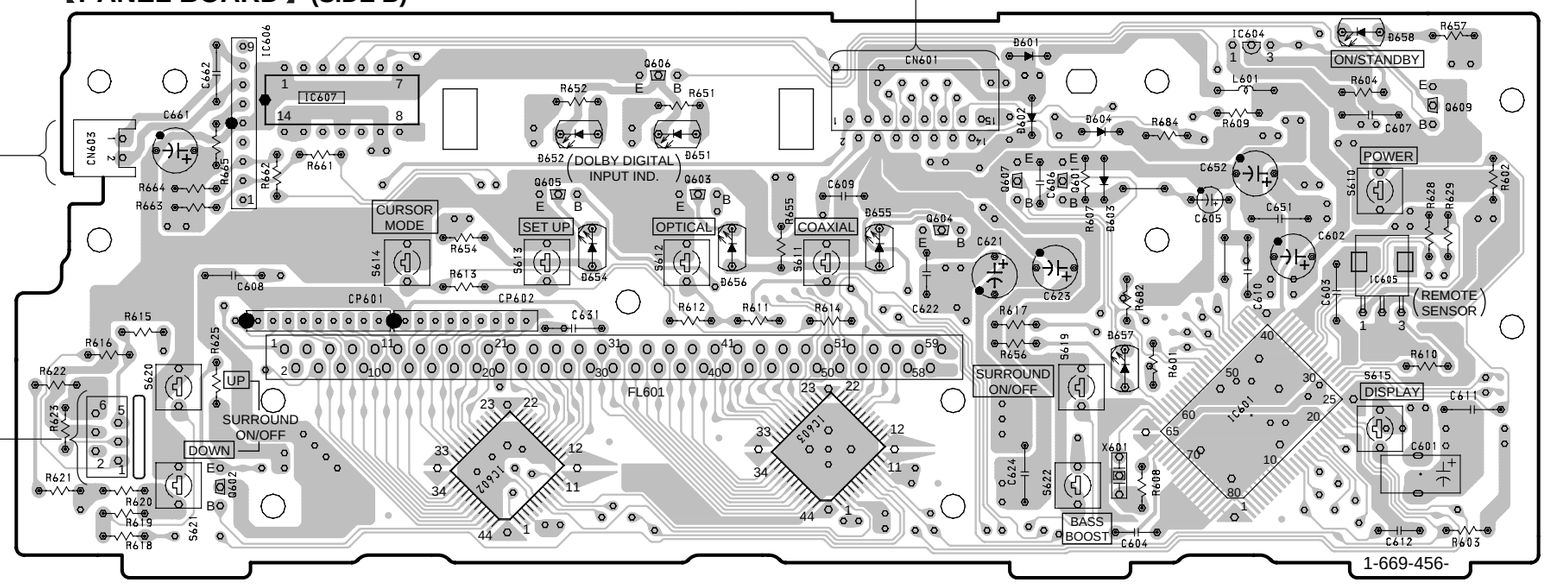
3-10. PRINTED WIRING BOARD — PANEL SECTION —

• Refer to page 6 for Circuit Boards Location .

【VOLUME BOARD】(SIDE B)



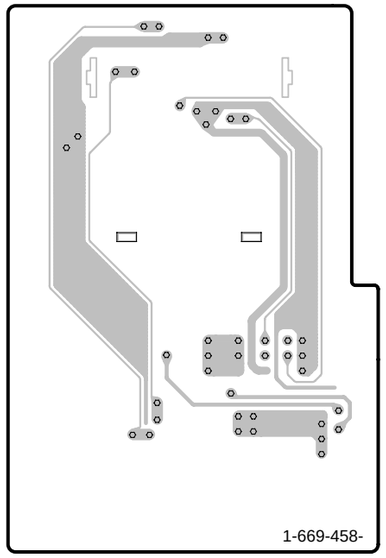
【PANEL BOARD】(SIDE B)



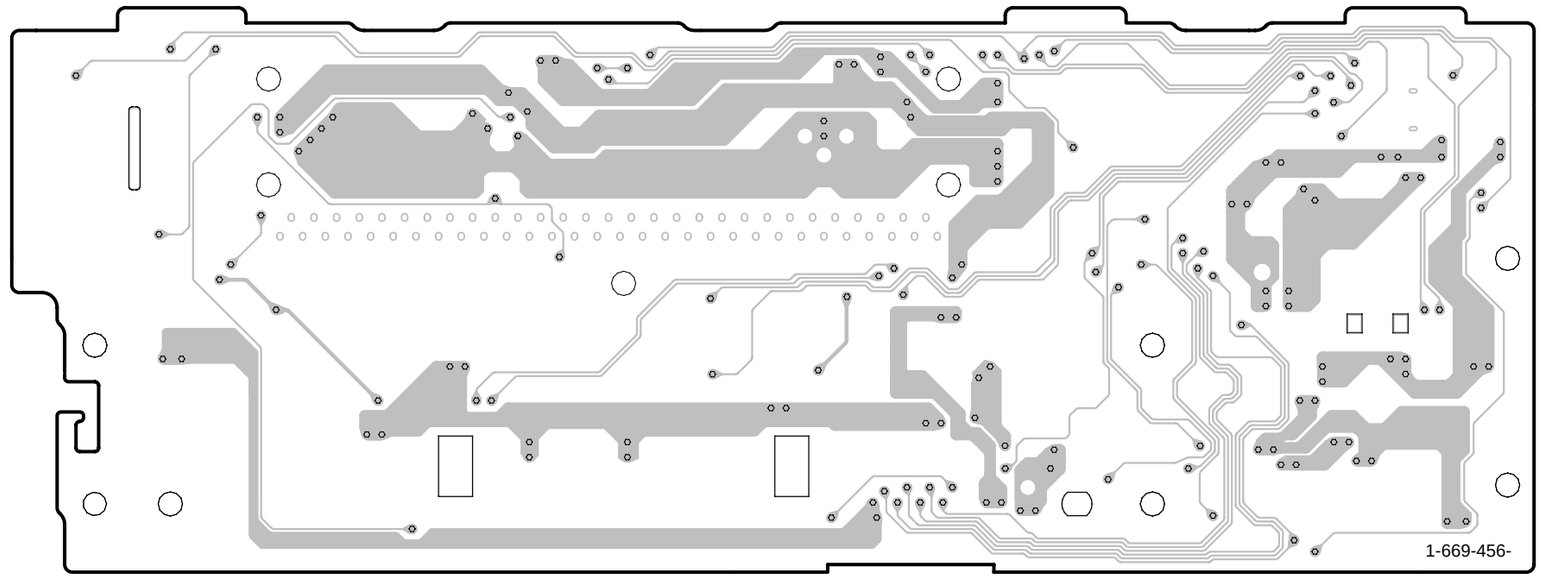
• Semiconductor Location

Ref. No.	Location
D601	A-10
D602	B-10
D603	B-11
D604	B-11
D651	B-8
D652	B-7
D654	C-8
D655	B-9
D656	C-9
D657	C-11
D658	A-12
IC601	D-12
IC602	D-7
IC603	D-9
IC604	A-12
IC605	C-13
IC606	A-5
IC607	B-6
Q601	B-11
Q602	D-5
Q603	B-8
Q604	B-10
Q605	B-7
Q606	A-8
Q607	B-10
Q609	B-13

【VOLUME BOARD】(SIDE A)

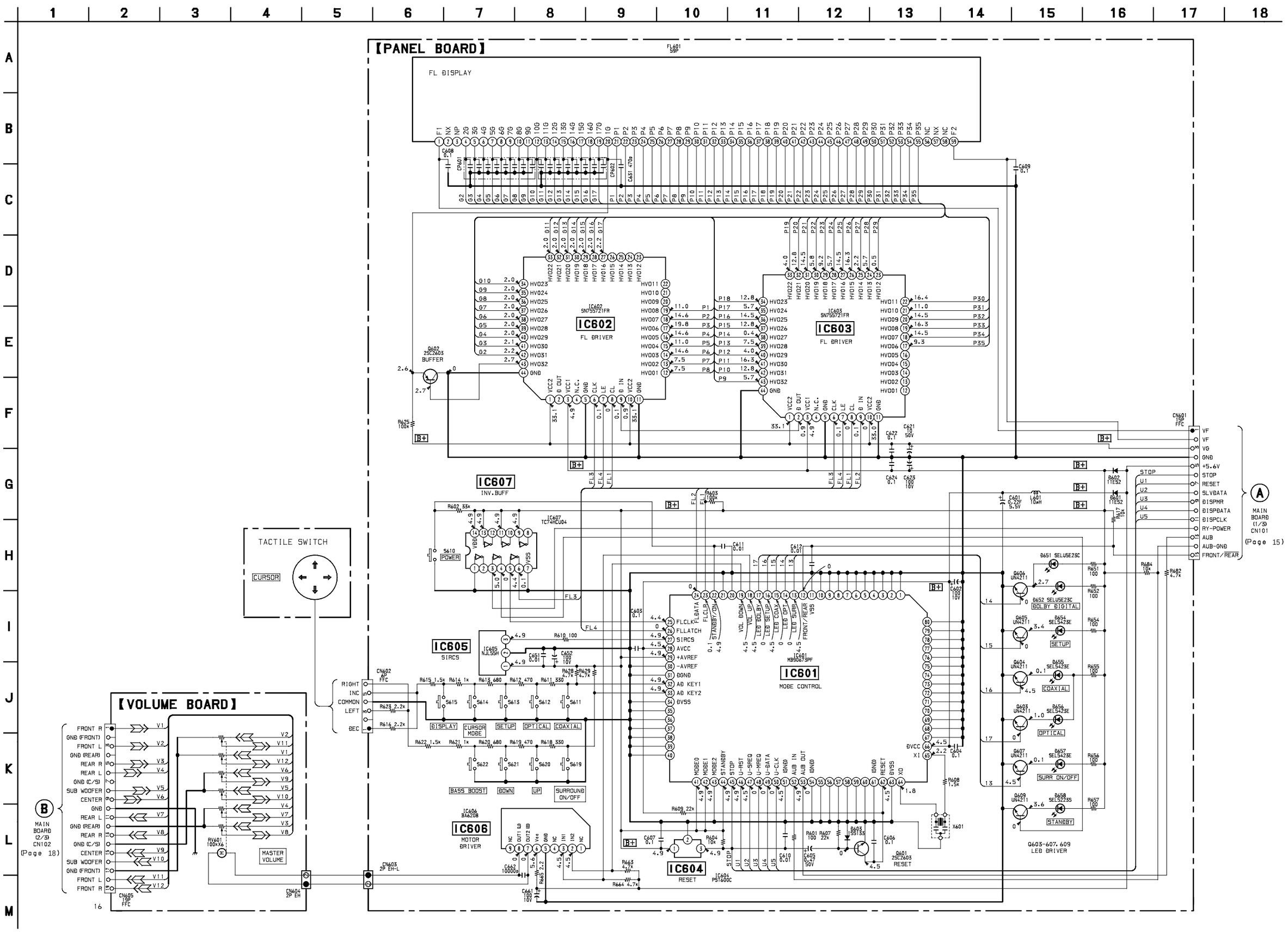


【PANEL BOARD】(SIDE A)



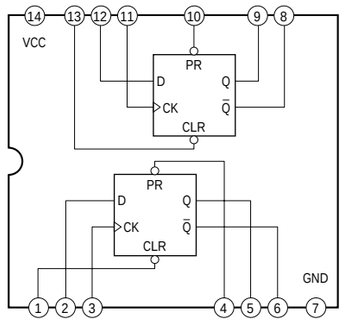
3-11. SCHEMATIC DIAGRAM — PANEL SECTION —

• Refer to page 27 for IC Block Diagrams . • Refer to page 29 for IC Pin Function Description .

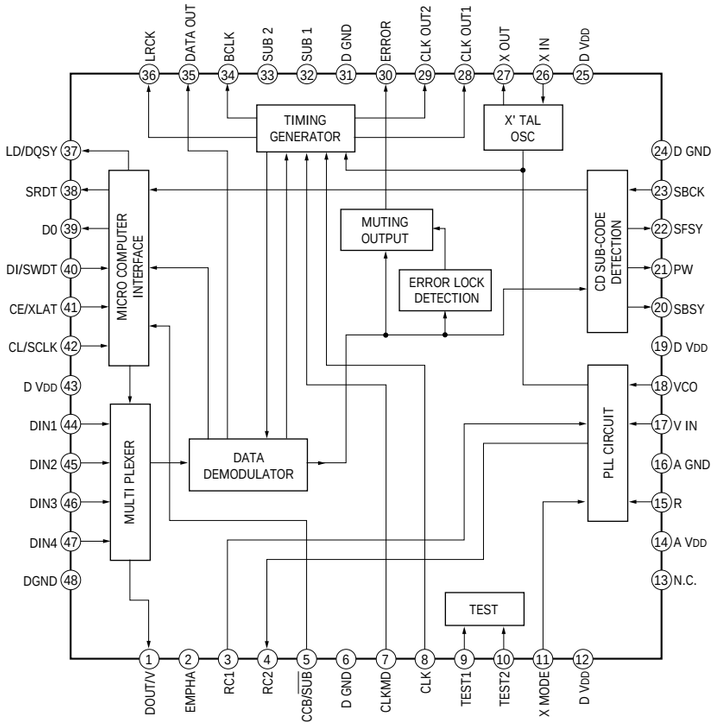


3-12. IC BLOCK DIAGRAMS

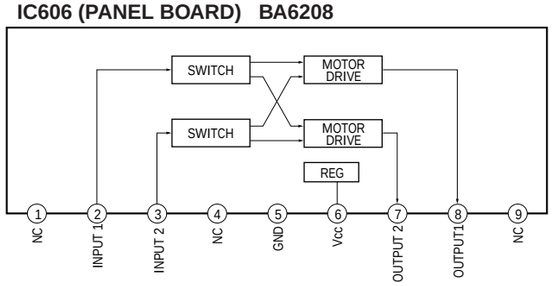
IC112 (MAIN BOARD) MC74HC74AF



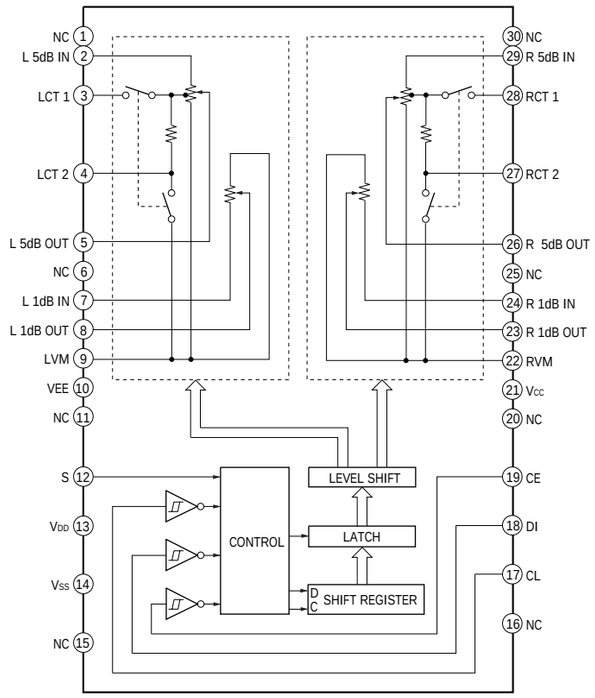
IC201 (MAIN BOARD) CXD8495AQ



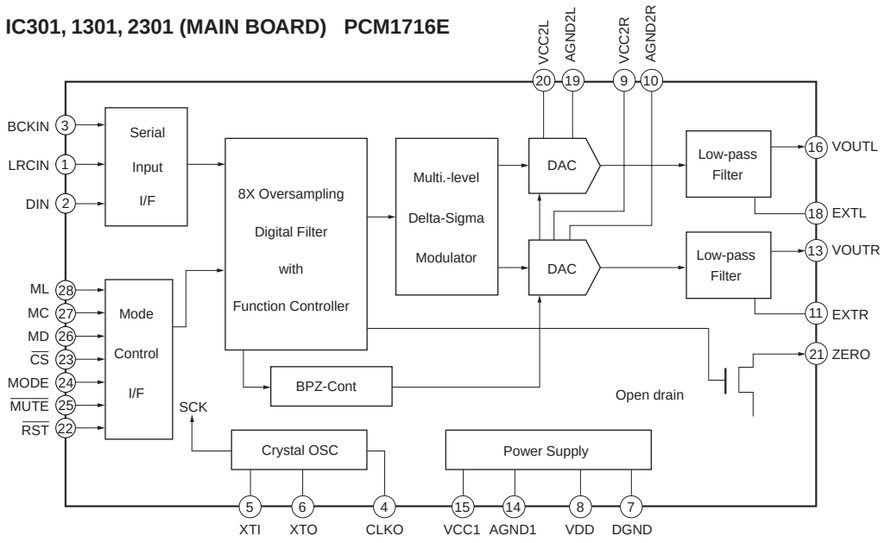
IC606 (PANEL BOARD) BA6208



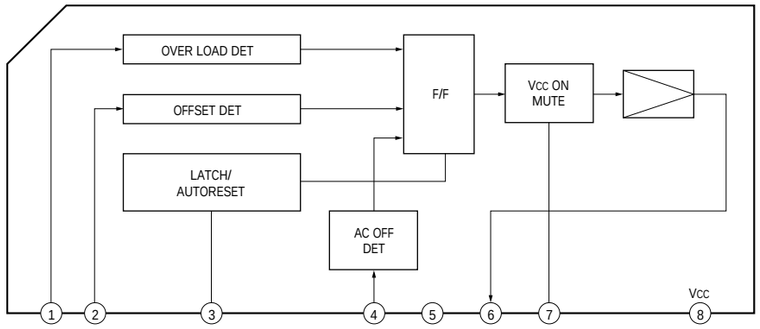
IC305, 1305, 2305 (MAIN BOARD) LC7535M



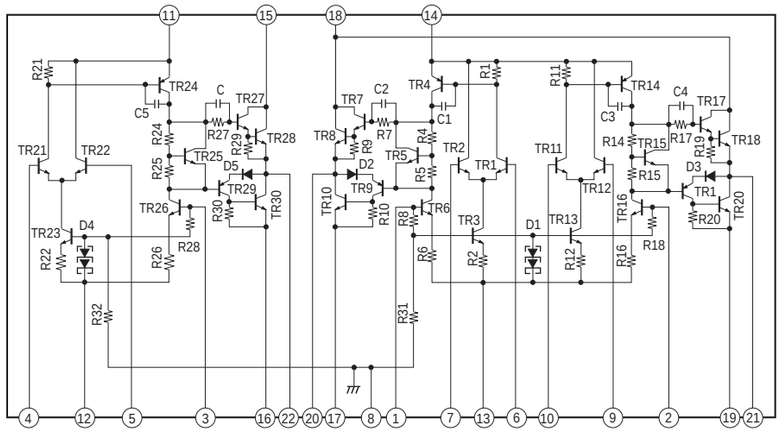
IC301, 1301, 2301 (MAIN BOARD) PCM1716E



IC701 (MAIN BOARD) UPC1237HA



IC601 (MAIN BOARD) STK400-070



3-13. IC PIN FUNCTION DESCRIPTION

IC601 MB90673PF-G-264-BND (MODE CONTROL)/PANEL BOARD

Pin No.	Pin Name	I/O	Description
1 to 10	—	—	Not used (Connected to Ground)
11	VSS	—	Ground
12	FRONT/$\overline{\text{REAR}}$	I	Front/rear speaker select switch input (Front at H, Rear at L)
13	LED SURR	O	SURROUND ON/OFF display LED drive output
14	SED OPT	O	OPTICAL display LED drive output
15	LED COAX	O	COAXIAL display LED drive output
16	LED SETUP	O	SET UP display LED drive output
17	LED DOLBY	O	Dolby display LED drive output
18	VOL UP	O	VOLUME UP data output
19	VOL DOWN	O	VOLUME DOWN data output
20, 21	—	—	Not used (Connected to Ground)
22	STANDBY/ON	I	STANDBY ON/OFF switch input
23	FLCLR	O	FL display clear output
24	FLDATA	O	FL display data output
25	FLCLK	O	FL display clock output
26	FLLATCH	O	FL display latch output
27	SIRCS	I	Remote commander SIRCS signal input
28	AVCC	—	Backup power supply +5 V
29	+AVREF	—	Non-backup power supply +5 V
30	–AVREF	—	Ground
31	D GND	—	Digital Ground
32	AD KEY1	I	Key input, to A/D converter
33	AD KEY2	I	Key input, to A/D converter
34	DVSS	—	Digital Ground
35 to 40	—	—	Not used (Connected to Ground)
41	MODE0	—	Not used (Connected to non-backup power supply +5 V)
42	MODE1	—	Not used (Connected to non-backup power supply +5 V)
43	MODE2	—	Not used (Connected to Ground)
44	STANDBY	—	Not used (Connected to non-backup power supply +5 V)
45	STOP	O	STOP signal output (to control microprocessor)
46	U-RST	O	Reset signal output (to control microprocessor)
47	U-SREQ	O	Slave request signal/data output (to control microprocessor)
48	U-MREQ	O	Master request signal output (to control microprocessor)
49	U-DATA	O	Master data output (to control microprocessor)
50	U-CLK	O	Master clock output (to control microprocessor)
51	GND	—	Ground
52	AUB IN	I	AUB power supply input
53	AUB OUT	O	AUB power supply output
54	GND	—	Ground
55 to 60	—	—	Not used (Connected to Ground)
61	GND	—	Ground
62	RESET	I	Reset signal input
63	DVSS	—	Digital Ground
64	XO	—	External 4 MHz crystal oscillator for system clock is connected to this terminal
65	XI	—	External 4 MHz crystal oscillator for system clock is connected to this terminal
66	DVCC	—	Backup power supply +5 V
67 to 80	—	—	Not used (Connected to Ground)

IC118 DSP56009FJ88F (DIGITAL SIGNAL PROCESSOR)/MAIN BOARD

Pin No.	Pin Name	I/O	Description
1	AGND	—	Address buffer Ground
2	MSC0	O	Chip select 0 output to SRAM (Not used)
3	MSC3	O	Chip select 3 output to SRAM (Not used)
4	MA14	O	Address data output to SRAM (Not used)
5	MA13	O	Address data output to SRAM (Not used)
6	AVCC	—	Address bus buffer power supply (+5 V)
7	MA12	O	Address data output to SRAM (Not used)
8	AGND	—	Address bus buffer Ground
9	QVCC	—	Power supply for internal logic (5 V)
10	QGND	—	Ground for internal logic
11	MA11	O	Address data output to SRAM (Not used)
12	MA10	O	Address data output to SRAM (Not used)
13	MA9	O	Address data output to SRAM (Not used)
14	MA8	O	Address data output to SRAM (Not used)
15	AGND	—	Address bus buffer Ground
16	MA7	O	Address data output to SRAM (Not used)
17	AVCC	—	Address bus buffer power supply (+5 V)
18	MA6	O	Address data output to SRAM (Not used)
19	MA5	O	Address data output to SRAM (Not used)
20	MA4	O	Address data output to SRAM (Not used)
21	AGND	—	Address bus buffer Ground
22	MA3	O	Address data output to SRAM (Not used)
23	MA2	O	Address data output to SRAM (Not used)
24	MA1	O	Address data output to SRAM (Not used)
25	MA0	O	Address data output to SRAM (Not used)
26	SCK	I	SPI serial clock signal input from system controller
27	EXTAL	I	External frequency input (3 MHz)
28	QVCC	—	Power supply for internal logic (5 V)
29	QGND	—	Ground for internal logic
30	PINIT	I	PLL initialize input (Fixed to “L”)
31	PGND	—	Ground for PLL
32	PCAP	I	PLL filter input (Connected to 0.01 uF capacitor)
33	PVCC	—	Power supply for PLL (+5 V)
34	SGND	—	Ground for serial port
35	MISO	I	Master data input from system controller
36	RESET	I	Reset signal input from system controller
37	MODA	I	Mode select A (Fixed to “H”)
38	MODB	I	Mode select B (Fixed to “L”)
39	MODC	I	Mode select C (Fixed to “H”)
40	SVCC	—	Power supply for serial port (+5 V)

Pin No.	Pin Name	I/O	Description
41	MOSI	O	Master data signal output to system controller
42	SS	I	SPI slave select signal input from system controller
43	HREQ	I	Host request signal input from system controller
44	SGND	—	Ground for serial port
45	SDO2	O	Audio serial data 2 signal output (Not used)
46	SDO1	O	Audio serial data 1 signal output
47	SDO0	O	Audio serial data 0 signal output
48	SVCC	—	Power supply for serial port (+5 V)
49	SCKT	O	Serial clock transfer output
50	WST	O	Word select transfer output
51	SCKR	I	Serial clock reception input
52	QGND	—	Ground for internal logic
53	QVCC	—	Power supply for internal logic (+5 V)
54	SGND	—	Ground for serial port
55	WSR	I	Word select reception
56	SDI1	I	Audio serial data 1 signal input
57	SDI0	I	Audio serial data 0 signal input
58	DSO	O	Debug serial signal output (Not used)
59	DSI	I	Debug serial signal input (Not used)
60	DSCK	I	Debug serial clock signal input (Not used)
61	DR	I	Debug request input (Fixed to “H”)
62	MD7	I/O	Data input/output with SRAM (Not used)
63	MD6	I/O	Data input/output with SRAM (Not used)
64	MD5	I/O	Data input/output with SRAM (Not used)
65	MD4	I/O	Data input/output with SRAM (Not used)
66	DGND	—	Ground for data bus buffer (+5 V)
67	MD3	I/O	Data input/output with SRAM (Not used)
68	MD2	I/O	Data input/output with SRAM (Not used)
69	MD1	I/O	Data input/output with SRAM (Not used)
70	DVCC	—	Power supply for data bus buffer (+5 V)
71	MD0	I/O	Data input/output with SRAM (Not used)
72	DGND	—	Ground for data bus buffer
73	GPIO3	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
74	GPIO2	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
75	GPIO1	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
76	GPIO0	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
77	MRD	O	Write strobe signal output to SRAM (Not used)
78	MWR	O	Read strobe signal output to SRAM (Not used)
79	MRAS	O	Low address strobe signal output to SRAM (Not used)
80	MCAS	O	Column address strobe signal output to SRAM (Not used)

IC119 SSP424023FJ88 (DIGITAL SIGNAL PROCESSOR)/MAIN BOARD

Pin No.	Pin Name	I/O	Description
1	AGND	—	Address buffer Ground
2	MSC0	O	Chip select 0 output to SRAM (Not used)
3	MSC3	O	Chip select 3 output to SRAM
4	MA14	O	Address data output to SRAM
5	MA13	O	Address data output to SRAM
6	AVCC	—	Address bus buffer power supply (+5 V)
7	MA12	O	Address data output to SRAM
8	AGND	—	Address bus buffer Ground
9	QVCC	—	Power supply for internal logic (5 V)
10	QGND	—	Ground for internal logic
11	MA11	O	Address data output to SRAM
12	MA10	O	Address data output to SRAM
13	MA9	O	Address data output to SRAM
14	MA8	O	Address data output to SRAM
15	AGND	—	Address bus buffer Ground
16	MA7	O	Address data output to SRAM
17	AVCC	—	Address bus buffer power supply (+5 V)
18	MA6	O	Address data output to SRAM
19	MA5	O	Address data output to SRAM
20	MA4	O	Address data output to SRAM
21	AGND	—	Address bus buffer Ground
22	MA3	O	Address data output to SRAM
23	MA2	O	Address data output to SRAM
24	MA1	O	Address data output to SRAM
25	MA0	O	Address data output to SRAM
26	SCK	I	SPI serial clock signal input from system controller
27	EXTAL	I	External frequency input (3 MHz)
28	QVCC	—	Power supply for internal logic (5 V)
29	QGND	—	Ground for internal logic
30	PINIT	I	PLL initialize input (Fixed to “L”)
31	PGND	—	Ground for PLL
32	PCAP	I	PLL filter input (Connected to 0.01 uF capacitor)
33	PVCC	—	Power supply for PLL (+5 V)
34	SGND	—	Ground for serial port
35	MISO	I	Master data input from system controller
36	RESET	I	Reset signal input from system controller
37	MODA	I	Mode select A (Fixed to “H”)
38	MODB	I	Mode select B (Fixed to “L”)
39	MODC	I	Mode select C (Fixed to “H”)
40	SVCC	—	Power supply for serial port (+5 V)

Pin No.	Pin Name	I/O	Description
41	MOSI	O	Master data signal output to system controller
42	SS	I	SPI slave select signal input from system controller
43	HREQ	I	Host request signal input from system controller
44	SGND	—	Ground for serial port
45	SDO2	O	Audio serial data 2 signal output
46	SDO1	O	Audio serial data 1 signal output
47	SDO0	O	Audio serial data 0 signal output
48	SVCC	—	Power supply for serial port (+5 V)
49	SCKT	O	Serial clock transfer output
50	WST	O	Word select transfer output
51	SCKR	I	Serial clock reception input
52	QGND	—	Ground for internal logic
53	QVCC	—	Power supply for internal logic (+5 V)
54	SGND	—	Ground for serial port
55	WSR	I	Word select reception
56	SDI1	I	Audio serial data 1 signal input
57	SDI0	I	Audio serial data 0 signal input
58	DSO	O	Debug serial signal output (Not used)
59	DSI	I	Debug serial signal input (Not used)
60	DSCK	I	Debug serial clock signal input (Not used)
61	DR	I	Debug request input (Fixed to “H”)
62	MD7	I/O	Data input/output with SRAM
63	MD6	I/O	Data input/output with SRAM
64	MD5	I/O	Data input/output with SRAM
65	MD4	I/O	Data input/output with SRAM
66	DGND	—	Ground for data bus buffer (+5 V)
67	MD3	I/O	Data input/output with SRAM
68	MD2	I/O	Data input/output with SRAM
69	MD1	I/O	Data input/output with SRAM
70	DVCC	—	Power supply for data bus buffer (+5 V)
71	MD0	I/O	Data input/output with SRAM
72	DGND	—	Ground for data bus buffer
73	GPIO3	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
74	GPIO2	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
75	GPIO1	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR (Not used)
76	GPIO0	I/O	Input/output with general DIGITAL SIGNAL PROCESSOR
77	MRD	O	Write strobe signal output to SRAM
78	MWR	O	Read strobe signal output to SRAM
79	MRAS	O	Low address strobe signal output to SRAM (Not used)
80	MCAS	O	Column address strobe signal output to SRAM

IC151 MB90573PF-G-104-BND (DIGITAL SIGNAL PROCESSOR)/MAIN BOARD

Pin No.	Pin Name	I/O	Description
1	—	—	Not used (Connected to Ground)
2	RF RESET	O	RF demodulater/DIR reset output
3 to 7	—	—	Not used (Connected to Ground)
8	VCC	—	Power supply +5 V
9	SIN0	—	Not used (Open)
10	SOT0	—	Not used (Open)
11	—	—	Not used (Open)
12	SIN1	—	Not used (Open)
13	SOT1	—	Not used (Open)
14	—	—	Not used (Connected to Ground)
15	$\overline{\text{ANA}}$/DIG	O	Analog/digital select output
16	—	—	Not used (Connected to Ground)
17	HREQ	I	DSP56009 Host request input
18	SS	O	DSP56009 Slave select output
19	MOSI	O	DSP56009 MOSI output
20	RESET	O	DSP56009 MOSI reset output
21	MISO	I	DSP56009 MISO input
22	CLOCK	O	DSP56009 Clock output
23	HREQ	I	DSP56007 Host request input
24	SS	O	DSP56007 Slave select output
25	MOSI	O	DSP56007 MOSI output
26	RESET	O	DSP56007 reset output
27	MISO	I	DSP56007 MISO input
28	CLOCK	O	DSP56007 Clock output
29	LOW-FREQ-IED 0	I	DSP56007 GP100 input
30	LOW-FREQ-IED 1	I	DSP56007 GP101 input
31	LOW-FREQ-IED 2	I	DSP56007 GP102 input
32	—	—	Not used (Connected to Ground)
33	VSS	—	Ground
34	C	—	External capacitance 0.1 µF for power regulation is connected to this terminal
35	F-LAT	O	Front volume, data latch
36	F-DAT	O	Front volume, data
37	F-CLK	O	Front volume, clock
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital Ground
40	D/A INT	O	D/A PCM1716E initialization output
41	D/A LAT	O	D/A PCM1716E latch output
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply for A/D converter +5 V
44	AVR–	—	Ground for A/D converter
45	AVSS	—	Ground
46	D/A CLK	O	D/A PCM1716E clock output
47	D/A DATA	O	D/A PCM1716E data output

Pin No.	Pin Name	I/O	Description
48 to 50	—	—	Not used (Connected to Ground)
51	DISP MR	I	Panel display MB90673PF macro request input
52	DISP DATA	I	Panel display MB90673PF data input
53	SLVDTA/REQ	O	Panel display MB90673PF slave data request output
54	VCC	—	Power supply +5 V
55	DISP CLK	I	Panel display MB90673PF clock input
56	LAT	O	LC7573 latch output
57	DATA	O	LC7573 data output
58	CLK	O	LC7573 clock output
59 to 62	—	—	Not used (Connected to Ground)
63	VSS	—	Ground
64	STOP	I	AC power supply check. STOP input
65	CCB/SUB	O	LC8904Q I/F select
66	EMPHA	—	Not used (Open)
67	ERROR	I	LC8904Q error input
68	SUB1	—	Not used (Open)
69	SUB2	—	Not used (Open)
70 to 72	—	—	Not used (Connected to Ground)
73	XIA	—	Not used (Open)
74	XOA	—	Not used (Open)
75	SRDT	I	LC8904Q C-bit input
76	SWDT	O	LC8904Q data output
77	XLAT	O	LC8904Q latch output
78	SCLK	O	LC8904Q clock output
79	PROTEC	I	Protector input
80 to 85	—	—	Not used (Connected to Ground)
86	HSTX	—	Hardware standby Connected to power supply
87	MD2	—	Flash memory rewrite L/H selection
88	MD1	—	Flash memory rewrite L/H selection
89	MD0	—	Flash memory rewrite L/H selection
90	RESET	I	Panel display MB90673PF reset
91	VSS	—	Ground
92	XO	—	External 4 MHz ceramic oscillator is connected to this terminal
93	XI	—	External 4 MHz ceramic oscillator is connected to this terminal
94	VCC	—	Power supply +5 V
95	PO0	I	Flash memory rewrite L/H select
96	PO1	I	Flash memory rewrite L/H select
97	—	—	Not used (Connected to Ground)
98	SURR MUTING	O	Surround muting
99	—	—	Not used (Connected to Ground)
100	RY-3/5	O	5 CH: L, 3 CH: H
101	RY-FRONT	O	Front speaker relay
102	—	—	Not used (Connected to Ground)
103	RY-CENTER	O	Center speaker relay
104	RY-REAR	O	Rear speaker relay
105	RY-MUTING	O	Sub woofer relay
106	—	—	Not used (Connected to Ground)

Pin No.	Pin Name	I/O	Description
107	RY-POWER	O	Power supply relay
108 to 111	—	—	Not used (Connected to Ground)
112	TEST0	O	Test port 0
113	TEST1	O	Test port 1
114	TEST2	O	Test port 2
115	TEST3	O	Test port 3
116 to 118	—	—	Not used (Connected to Ground)
119	VSS	—	Ground
120	—	—	Not used (Connected to Ground)

SECTION 4
EXPLODED VIEWS

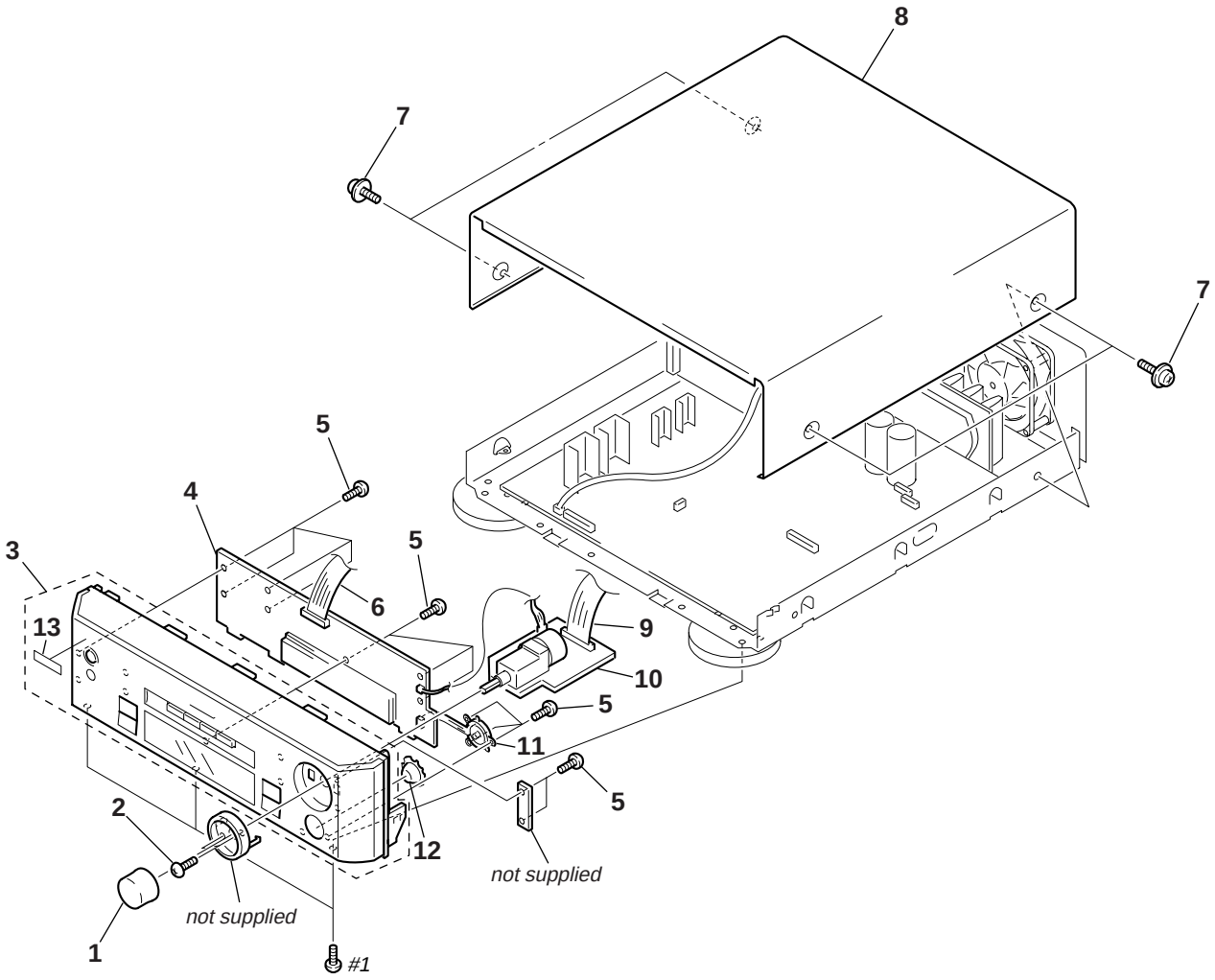
NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

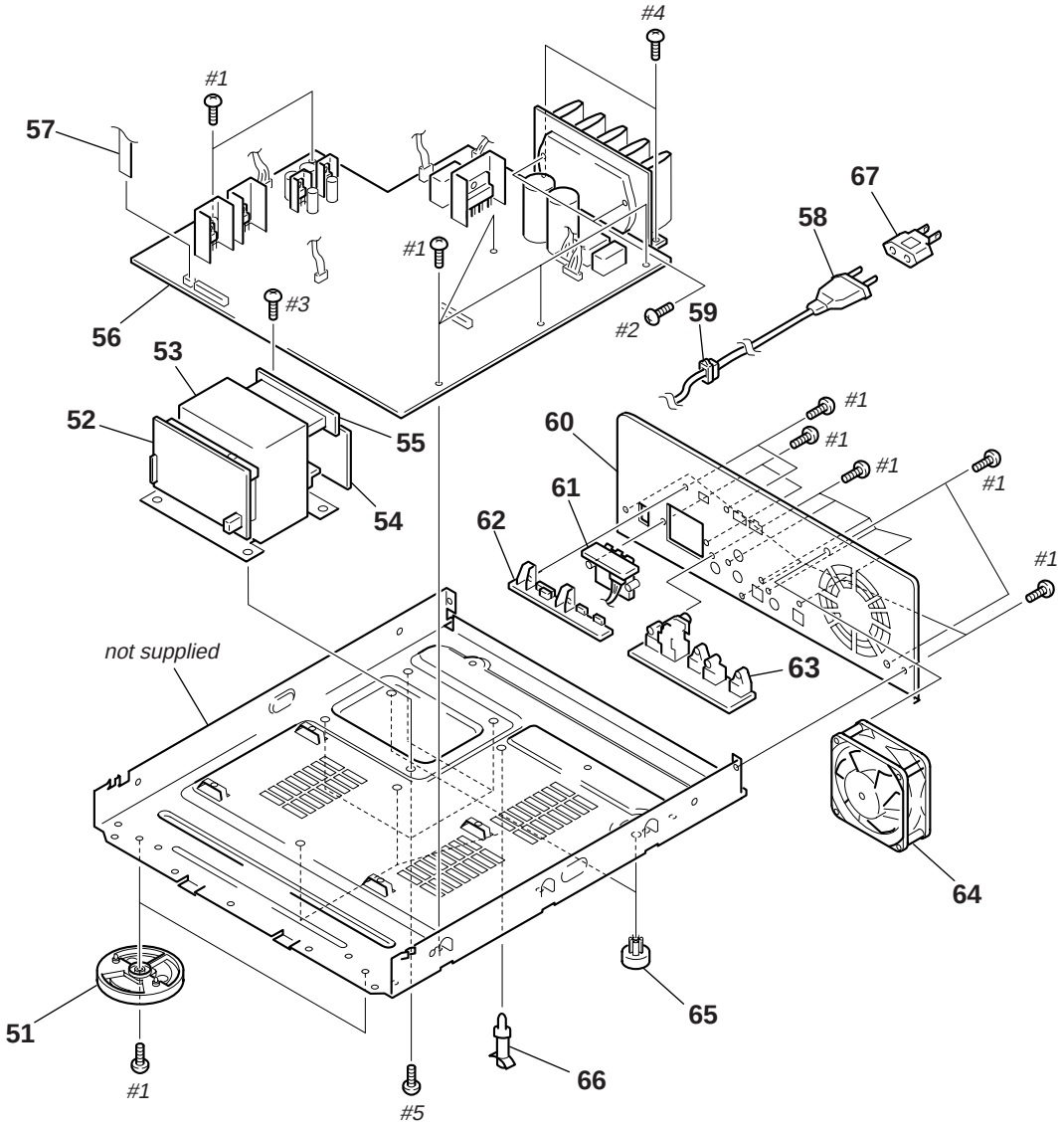
以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	4-997-946-01	KNOB (VOL)	
2	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
3	X-4950-206-2	PANEL ASSY, FRONT	
* 4	A-4407-554-A	PANEL BOARD, COMPLETE	
5	4-951-620-01	SCREW (2.6 × 8), +BVTP	
6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
7	3-363-099-01	SCREW (CASE 3 TP2)	
* 8	3-939-652-31	CASE	
9	1-773-108-11	WIRE (FLAT TYPE) (19 CORE)	
* 10	1-669-458-11	VOLUME BOARD	
11	1-771-358-11	SWITCH, TACTILE (WITH LEAD)	
12	4-997-947-01	KNOB (CURSOR)	
13	4-969-961-01	EMBLEM (NO.4), SONY	

4-2. REAR PANEL SECTION



Ref. No.	Part No.	Description	Remarks
51	4-977-699-11	LEG (F)	
* 52	1-669-462-11	SECONDARY BOARD	
⚠53	1-431-855-11	TRANSFORMER, POWER	
* 54	1-669-463-11	AC BOARD	
* 55	1-669-461-11	PRIMARY BOARD	
* 56	A-4414-484-A	MAIN BOARD, COMPLETE	
57	1-769-868-11	WIRE (FLAT TYPE) (5 CORE)	
⚠58	1-575-651-21	CORD, POWER	
59	3-703-244-00	BUSHING (2104), CORD	
* 60	4-997-950-11	PANEL, BACK	
* 61	1-669-459-11	SPEAKER BOARD	
* 62	1-669-460-11	SWITCH BOARD	
* 63	1-669-457-11	JACK BOARD	
64	1-698-792-11	FAN, DC	
65	3-964-353-01	FOOT	
* 66	4-924-098-11	HOLDER, PC BOARD	
⚠67	1-569-008-21	ADAPTOR, CONVERSION 2P	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

SECTION 5
ELECTRICAL PARTS LIST

AC **JACK** **MAIN**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks
*	1-669-463-11	AC BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CONNECTOR >			
* CN991	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P			
		< FUSE >			
⚠F991	1-532-388-51	FUSE TIME LAG 2A 250V			
⚠F992	1-532-463-51	FUSE TIME LAG 1A 250V			
		< SWITCH >			
⚠S991	1-572-675-11	SWITCH, POWER(VOLTAGE SELECT)			
**********					
*	1-669-457-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C101	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-126-933-11	ELECT	100uF	20%	16V
C104	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C106	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C107	1-104-664-11	ELECT	47uF	20%	25V
C109	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C121	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C122	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C123	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN104	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN302	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< IC >			
IC101	8-749-923-05	IC TORX178 (OPTICAL IN)			
IC102	8-749-923-04	IC TOTX178 (OPTICAL OUT)			
IC105	8-759-242-70	IC TC7WU04F			
IC108	8-759-232-65	IC TC74HC157AF			
		< JACK >			
J101	1-770-905-11	JACK, PIN 1P (COAXIAL IN)			
J102	1-770-272-11	JACK, PIN 2P (FRONT OUT)			
J103	1-774-785-11	JACK, PIN 1P (WOOFER OUT)			

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L101	1-410-393-11	INDUCTOR CHIP	100uH		
L103	1-410-381-11	INDUCTOR CHIP	10uH		
L108	1-410-381-11	INDUCTOR CHIP	10uH		
		< RESISTOR >			
R101	1-216-022-00	METAL CHIP	75	5%	1/10W
R102	1-216-025-91	RES, CHIP	100	5%	1/10W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-025-91	RES, CHIP	100	5%	1/10W
R105	1-216-022-00	METAL CHIP	75	5%	1/10W
R106	1-216-121-91	RES, CHIP	1M	5%	1/10W
R112	1-216-022-00	METAL CHIP	75	5%	1/10W
R121	1-216-049-91	RES, CHIP	1K	5%	1/10W
R122	1-216-049-91	RES, CHIP	1K	5%	1/10W
R123	1-216-049-91	RES, CHIP	1K	5%	1/10W
**********					
*	A-4414-484-A	MAIN BOARD, COMPLETE			
		**********			
*	3-309-144-21	HEAT SINK			
*	4-880-403-11	HEAT SINK			
	7-685-871-01	SCREW +BVTT 3×6 (S)			
		< CAPACITOR >			
C111	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C140	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C141	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C142	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C143	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C144	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C145	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C146	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C147	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C148	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C149	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C150	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C151	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C152	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C153	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C154	1-126-925-11	ELECT	470uF	20%	10V
C155	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C156	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C157	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C158	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remarks
C159	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C160	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C161	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C162	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C163	1-126-925-11	ELECT	470uF	20%	10V
C164	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C165	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C166	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C167	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C168	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C169	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C170	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C171	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C181	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C182	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C183	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C184	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C185	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C186	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C187	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C189	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C191	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C192	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C193	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C194	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C201	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-664-11	ELECT	47uF	20%	16V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C205	1-104-664-11	ELECT	47uF	20%	16V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C210	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C211	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C212	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C221	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C222	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C304	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C308	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C309	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C310	1-124-721-11	ELECT	10uF	20%	50V
C311	1-124-721-11	ELECT	10uF	20%	50V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C316	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C317	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C318	1-130-475-00	MYLAR	0.0022uF	5%	50V
C319	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C320	1-130-475-00	MYLAR	0.0022uF	5%	50V
C321	1-126-049-11	ELECT	22uF	20%	50V
C322	1-124-721-11	ELECT	10uF	20%	50V
C323	1-124-721-11	ELECT	10uF	20%	50V
C328	1-124-721-11	ELECT	10uF	20%	50V
C329	1-163-243-11	CERAMIC CHIP	47PF	5%	50V

Ref. No.	Part No.	Description			Remarks
C330	1-124-721-11	ELECT	10uF	20%	50V
C332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C333	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C342	1-104-664-11	ELECT	47uF	20%	25V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-964-11	ELECT	10uF	20%	50V
C368	1-130-475-00	MYLAR	0.0022uF	5%	50V
C370	1-130-475-00	MYLAR	0.0022uF	5%	50V
C371	1-126-049-11	ELECT	22uF	20%	50V
C372	1-124-721-11	ELECT	10uF	20%	50V
C373	1-124-721-11	ELECT	10uF	20%	50V
C378	1-124-721-11	ELECT	10uF	20%	50V
C379	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C380	1-124-721-11	ELECT	10uF	20%	50V
C381	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C382	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C383	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C392	1-104-664-11	ELECT	47uF	20%	25V
C601	1-124-721-11	ELECT	10uF	20%	50V
C602	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C603	1-104-664-11	ELECT	47uF	20%	25V
C604	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C605	1-136-165-00	FILM	0.1uF	5%	50V
C606	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C611	1-124-721-11	ELECT	10uF	20%	50V
C612	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C613	1-104-664-11	ELECT	47uF	20%	25V
C614	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C615	1-136-165-00	FILM	0.1uF	5%	50V
C616	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C621	1-124-721-11	ELECT	10uF	20%	50V
C622	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C623	1-104-664-11	ELECT	47uF	20%	25V
C624	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C625	1-136-165-00	FILM	0.1uF	5%	50V
C626	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C681	1-126-968-11	ELECT	100uF	20%	50V
C682	1-126-968-11	ELECT	100uF	20%	50V
C683	1-126-968-11	ELECT	100uF	20%	50V
C684	1-126-968-11	ELECT	100uF	20%	50V
C685	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C702	1-126-933-11	ELECT	100uF	20%	16V
C703	1-126-933-11	ELECT	100uF	20%	16V
C704	1-126-961-11	ELECT	2.2uF	20%	50V
C705	1-126-933-11	ELECT	100uF	20%	16V
C721	1-126-964-11	ELECT	10uF	20%	50V
C722	1-126-933-11	ELECT	100uF	20%	16V
C723	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C900	1-115-364-11	ELECT	22000uF	20%	16V
C901	1-115-364-11	ELECT	22000uF	20%	16V
C902	1-126-105-11	ELECT	1000uF	20%	35V
C903	1-126-105-11	ELECT	1000uF	20%	35V
C904	1-126-968-11	ELECT	100uF	20%	50V
C905	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C906	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C907	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C908	1-126-967-11	ELECT	47uF	20%	50V
C909	1-126-925-11	ELECT	470uF	20%	10V
C910	1-126-103-11	ELECT	470uF	20%	16V
C911	1-126-103-11	ELECT	470uF	20%	16V

Ref. No.	Part No.	Description			Remarks
C912	1-126-964-11	ELECT	10uF	20%	50V
C913	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C914	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C915	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C917	1-126-967-11	ELECT	47uF	20%	50V
C918	1-126-927-11	ELECT	2200uF	20%	10V
C919	1-136-165-00	FILM	0.1uF	5%	50V
C920	1-136-165-00	FILM	0.1uF	5%	50V
C921	1-136-165-00	FILM	0.1uF	5%	50V
C922	1-136-165-00	FILM	0.1uF	5%	50V
C923	1-117-691-11	ELECT (BLOCK)	8200uF	20%	50V
C924	1-117-691-11	ELECT (BLOCK)	8200uF	20%	50V
C926	1-136-165-00	FILM	0.1uF	5%	50V
C931	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1304	1-126-964-11	ELECT	10uF	20%	50V
C1305	1-126-964-11	ELECT	10uF	20%	50V
C1307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1308	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1309	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C1310	1-124-721-11	ELECT	10uF	20%	50V
C1311	1-124-721-11	ELECT	10uF	20%	50V
C1312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1316	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1317	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1318	1-130-475-00	MYLAR	0.0022uF	5%	50V
C1319	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1320	1-130-475-00	MYLAR	0.0022uF	5%	50V
C1321	1-126-049-11	ELECT	22uF	20%	50V
C1322	1-124-721-11	ELECT	10uF	20%	50V
C1323	1-124-721-11	ELECT	10uF	20%	50V
C1328	1-124-721-11	ELECT	10uF	20%	50V
C1329	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1330	1-124-721-11	ELECT	10uF	20%	50V
C1332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1333	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1355	1-126-964-11	ELECT	10uF	20%	50V
C1356	1-126-964-11	ELECT	10uF	20%	50V
C1368	1-130-475-00	MYLAR	0.0022uF	5%	50V
C1370	1-130-475-00	MYLAR	0.0022uF	5%	50V
C1371	1-126-049-11	ELECT	22uF	20%	50V
C1372	1-124-721-11	ELECT	10uF	20%	50V
C1373	1-124-721-11	ELECT	10uF	20%	50V
C1378	1-124-721-11	ELECT	10uF	20%	50V
C1379	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1380	1-124-721-11	ELECT	10uF	20%	50V
C1381	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1382	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1383	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C2301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2304	1-126-964-11	ELECT	10uF	20%	50V
C2305	1-126-964-11	ELECT	10uF	20%	50V
C2307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2308	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2309	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C2310	1-124-721-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C2311	1-124-721-11	ELECT	10uF	20%	50V
C2312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2316	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2317	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2318	1-130-475-00	MYLAR	0.0022uF	5%	50V
C2319	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2320	1-130-475-00	MYLAR	0.0022uF	5%	50V
C2321	1-126-049-11	ELECT	22uF	20%	50V
C2322	1-124-721-11	ELECT	10uF	20%	50V
C2323	1-124-721-11	ELECT	10uF	20%	50V
C2328	1-124-721-11	ELECT	10uF	20%	50V
C2329	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2330	1-124-721-11	ELECT	10uF	20%	50V
C2332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2333	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C2355	1-126-964-11	ELECT	10uF	20%	50V
C2356	1-126-964-11	ELECT	10uF	20%	50V
C2368	1-130-475-00	MYLAR	0.0022uF	5%	50V
C2370	1-130-475-00	MYLAR	0.0022uF	5%	50V
C2371	1-126-049-11	ELECT	22uF	20%	50V
C2372	1-124-721-11	ELECT	10uF	20%	50V
C2373	1-124-721-11	ELECT	10uF	20%	50V
C2378	1-124-721-11	ELECT	10uF	20%	50V
C2379	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2380	1-124-721-11	ELECT	10uF	20%	50V
C2381	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2382	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2383	1-163-245-11	CERAMIC CHIP	56PF	5%	50V

< CONNECTOR >

	Ref. No.	Part No.	Description
	CN101	1-568-834-11	SOCKET, CONNECTOR 15P
	CN102	1-568-802-11	SOCKET, CONNECTOR 19P
	CN103	1-691-766-11	PLUG (MICRO CONNECTOR) 4P
	CN111	1-564-510-11	PLUG, CONNECTOR 7P
*	CN121	1-568-824-11	SOCKET, CONNECTOR 5P
	CN301	1-691-767-11	PLUG (MICRO CONNECTOR) 5P
	CN601	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
	CN701	1-564-506-11	PLUG, CONNECTOR 3P
	CN902	1-691-771-11	PLUG (MICRO CONNECTOR) 9P

< DIODE >

Ref. No.	Part No.	Description
D108	8-719-210-39	DIODE EC10QS-04
D109	8-719-210-33	DIODE EC10DS2
D110	8-719-988-62	DIODE 1SS355
D111	8-719-988-62	DIODE 1SS355
D182	8-719-988-62	DIODE 1SS355
D183	8-719-988-62	DIODE 1SS355
D301	8-719-988-62	DIODE 1SS355
D302	8-719-988-62	DIODE 1SS355
D303	8-719-988-62	DIODE 1SS355
D681	8-719-988-62	DIODE 1SS355
D682	8-719-988-62	DIODE 1SS355
D683	8-719-988-62	DIODE 1SS355
D701	8-719-988-62	DIODE 1SS355
D711	8-719-988-62	DIODE 1SS355
D712	8-719-988-62	DIODE 1SS355
D726	8-719-988-62	DIODE 1SS355
D727	8-719-988-62	DIODE 1SS355
D728	8-719-988-62	DIODE 1SS355
D729	8-719-988-62	DIODE 1SS355
D730	8-719-988-62	DIODE 1SS355

MAIN

Ref. No.	Part No.	Description	Remarks
D901	8-719-510-68	DIODE D5SBA20F01	
D902	8-719-028-23	DIODE D3SBA20-4101	
D903	8-719-200-02	DIODE 10E2	
D904	8-719-200-02	DIODE 10E2	
D905	8-719-200-02	DIODE 10E2	
D906	8-719-200-02	DIODE 10E2	
D907	8-719-200-02	DIODE 10E2	
D908	8-719-200-02	DIODE 10E2	
D909	8-719-200-02	DIODE 10E2	
D910	8-719-200-02	DIODE 10E2	
D913	8-719-978-98	DIODE DTZ-TT11-33C	
D914	8-719-977-13	DIODE DTZ6.8C	
D916	8-719-976-99	DIODE DTZ5.1B	
D921	8-719-988-62	DIODE 1SS355	
D1111	8-719-988-62	DIODE 1SS355	
D1301	8-719-988-62	DIODE 1SS355	
D1302	8-719-988-62	DIODE 1SS355	
D2111	8-719-988-62	DIODE 1SS355	
		< GROUND >	
E901	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
F164	1-424-544-11	FERRITE 0UH	
F165	1-424-544-11	FERRITE 0UH	
F166	1-424-544-11	FERRITE 0UH	
FB163	1-500-445-21	FERRITE	
FB177	1-500-445-21	FERRITE	
FB189	1-500-445-21	FERRITE	
FB190	1-500-445-21	FERRITE	
FB193	1-500-445-21	FERRITE	
FB199	1-500-445-21	FERRITE	
FB210	1-500-445-21	FERRITE	
FB212	1-500-445-21	FERRITE	
FB301	1-410-397-21	FERRITE BEAD INDUCTOR	
FB901	1-410-397-21	FERRITE BEAD INDUCTOR	
FB1301	1-410-397-21	FERRITE BEAD INDUCTOR	
FB2301	1-410-397-21	FERRITE BEAD INDUCTOR	
		< IC >	
IC107	8-759-242-70	IC TC7WU04F	
IC109	8-759-242-70	IC TC7WU04F	
IC110	8-759-233-64	IC TC74HCU04AF	
IC111	8-759-242-70	IC TC7WU04F	
IC112	8-759-237-43	IC TC74HC393AF(EL)	
IC118	8-759-446-37	IC DSP56009FJ88F	
IC119	8-759-446-40	IC SSP424023FJ88	
IC120	8-759-443-50	IC N341024SJ-20-TEL	
IC151	8-759-530-66	IC MB90573PF-G-104-BND	
IC191	8-759-242-70	IC TC7WU04F	
IC201	8-759-294-79	IC CXD8495AQ	
IC301	8-759-531-50	IC PCM1716E-BT2	
IC303	8-759-636-55	IC M5218AFP	
IC304	8-759-636-55	IC M5218AFP	
IC305	8-759-463-71	IC LC7535M-TLM	
IC306	8-759-636-55	IC M5218AFP	
IC601	8-749-013-59	IC STK400-070	
IC701	8-759-111-68	IC UPC1237HA	
IC901	8-759-231-53	IC TA7805S	
IC902	8-759-231-58	IC TA7812S	

Ref. No.	Part No.	Description	Remarks
IC903	8-759-245-86	IC TA7912S	
IC1301	8-759-531-50	IC PCM1716E-BT2	
IC1303	8-759-636-55	IC M5218AFP	
IC1304	8-759-636-55	IC M5218AFP	
IC1305	8-759-463-71	IC LC7535M-TLM	
IC1306	8-759-636-55	IC M5218AFP	
IC2301	8-759-531-50	IC PCM1716E-BT2	
IC2303	8-759-636-55	IC M5218AFP	
IC2304	8-759-636-55	IC M5218AFP	
IC2305	8-759-463-71	IC LC7535M-TLM	
IC2306	8-759-636-55	IC M5218AFP	
		< COIL >	
L102	1-216-296-91	SHORT 0	
L104	1-410-381-11	INDUCTOR CHIP 10uH	
L105	1-410-381-11	INDUCTOR CHIP 10uH	
L106	1-410-381-11	INDUCTOR CHIP 10uH	
L107	1-410-381-11	INDUCTOR CHIP 10uH	
L109	1-410-381-11	INDUCTOR CHIP 10uH	
L110	1-410-381-11	INDUCTOR CHIP 10uH	
L111	1-410-381-11	INDUCTOR CHIP 10uH	
L112	1-410-381-11	INDUCTOR CHIP 10uH	
L201	1-410-381-11	INDUCTOR CHIP 10uH	
L611	1-420-872-00	COIL, AIR-CORE	
L621	1-420-872-00	COIL, AIR-CORE	
L631	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q111	8-729-216-22	TRANSISTOR 2SA1162-G	
Q113	8-729-216-22	TRANSISTOR 2SA1162-G	
Q117	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q118	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q301	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q302	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q306	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q308	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q341	8-729-232-69	TRANSISTOR 2SK208GR3	
Q351	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q352	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q391	8-729-232-69	TRANSISTOR 2SK208GR3	
Q601	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q602	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q603	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q681	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q702	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q721	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q722	8-729-118-00	TRANSISTOR 2SB1116-L	
Q901	8-729-209-15	TRANSISTOR 2SD2012	
Q902	8-729-209-15	TRANSISTOR 2SD2012	
Q903	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q905	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q942	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1113	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1301	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1302	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1306	8-729-230-49	TRANSISTOR 2SC2712-YG	

Ref. No.	Part No.	Description			Remarks
Q1351	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q1352	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q2113	8-729-216-22	TRANSISTOR	2SA1162-G		
Q2301	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q2302	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q2306	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q2351	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q2352	8-729-107-46	TRANSISTOR	2SC3624A-L15		
		< RESISTOR >			
R110	1-216-097-91	RES,CHIP	100K	5%	1/10W
R111	1-216-121-91	RES,CHIP	1M	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R150	1-216-025-91	RES,CHIP	100	5%	1/10W
R151	1-216-295-91	SHORT	0		
R152	1-216-295-91	SHORT	0		
R153	1-216-025-91	RES,CHIP	100	5%	1/10W
R161	1-216-049-91	RES,CHIP	1K	5%	1/10W
R162	1-216-295-91	SHORT	0		
R163	1-216-049-91	RES,CHIP	1K	5%	1/10W
R164	1-216-037-00	METAL CHIP	330	5%	1/10W
R165	1-216-037-00	METAL CHIP	330	5%	1/10W
R166	1-216-037-00	METAL CHIP	330	5%	1/10W
R167	1-216-295-91	SHORT	0		
R168	1-216-295-91	SHORT	0		
R169	1-216-295-91	SHORT	0		
R170	1-216-295-91	SHORT	0		
R171	1-216-295-91	SHORT	0		
R172	1-216-295-91	SHORT	0		
R173	1-216-073-00	METAL CHIP	10K	5%	1/10W
R174	1-216-025-91	RES,CHIP	100	5%	1/10W
R175	1-216-025-91	RES,CHIP	100	5%	1/10W
R176	1-216-025-91	RES,CHIP	100	5%	1/10W
R177	1-216-041-00	METAL CHIP	470	5%	1/10W
R178	1-216-073-00	METAL CHIP	10K	5%	1/10W
R179	1-216-295-91	SHORT	0		
R180	1-216-097-91	RES,CHIP	100K	5%	1/10W
R182	1-216-097-91	RES,CHIP	100K	5%	1/10W
R183	1-216-097-91	RES,CHIP	100K	5%	1/10W
R184	1-216-073-00	METAL CHIP	10K	5%	1/10W
R185	1-216-295-91	SHORT	0		
R186	1-216-073-00	METAL CHIP	10K	5%	1/10W
R187	1-216-097-91	RES,CHIP	100K	5%	1/10W
R188	1-216-049-91	RES,CHIP	1K	5%	1/10W
R189	1-216-025-91	RES,CHIP	100	5%	1/10W
R190	1-216-049-91	RES,CHIP	1K	5%	1/10W
R191	1-216-043-91	RES,CHIP	560	5%	1/10W
R192	1-216-121-91	RES,CHIP	1M	5%	1/10W
R193	1-216-025-91	RES,CHIP	100	5%	1/10W
R194	1-216-073-00	METAL CHIP	10K	5%	1/10W
R195	1-216-073-00	METAL CHIP	10K	5%	1/10W
R196	1-216-073-00	METAL CHIP	10K	5%	1/10W
R199	1-216-025-91	RES,CHIP	100	5%	1/10W
R204	1-216-085-00	METAL CHIP	33K	5%	1/10W
R205	1-216-082-00	RES,CHIP	24K	5%	1/10W
R206	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R207	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R208	1-216-029-00	METAL CHIP	150	5%	1/10W
R209	1-216-104-00	METAL CHIP	200K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R211	1-216-043-91	RES, CHIP	560	5%	1/10W
R212	1-216-025-91	RES, CHIP	100	5%	1/10W
R213	1-216-025-91	RES, CHIP	100	5%	1/10W
R214	1-216-295-91	SHORT	0		
R215	1-216-097-91	RES,CHIP	100K	5%	1/10W
R271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R272	1-216-073-00	METAL CHIP	10K	5%	1/10W
R273	1-216-073-00	METAL CHIP	10K	5%	1/10W
R285	1-216-121-91	RES, CHIP	1M	5%	1/10W
R286	1-216-081-00	METAL CHIP	22K	5%	1/10W
R287	1-216-081-00	METAL CHIP	22K	5%	1/10W
R301	1-216-097-91	RES, CHIP	100K	5%	1/10W
R302	1-216-097-91	RES, CHIP	100K	5%	1/10W
R311	1-216-295-91	SHORT	0		
R318	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R319	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R321	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R322	1-216-097-91	RES, CHIP	100K	5%	1/10W
R323	1-216-041-00	METAL CHIP	470	5%	1/10W
R324	1-216-041-00	METAL CHIP	470	5%	1/10W
R325	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R326	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R327	1-216-097-91	RES, CHIP	100K	5%	1/10W
R328	1-216-085-00	METAL CHIP	33K	5%	1/10W
R331	1-216-073-00	METAL CHIP	10K	5%	1/10W
R338	1-216-097-91	RES, CHIP	100K	5%	1/10W
R339	1-216-049-91	RES, CHIP	1K	5%	1/10W
R340	1-216-097-91	RES, CHIP	100K	5%	1/10W
R341	1-216-121-91	RES, CHIP	1M	5%	1/10W
R342	1-216-073-00	METAL CHIP	10K	5%	1/10W
R343	1-216-097-91	RES, CHIP	100K	5%	1/10W
R344	1-216-097-91	RES, CHIP	100K	5%	1/10W
R345	1-216-025-91	RES, CHIP	100	5%	1/10W
R346	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R347	1-216-073-00	METAL CHIP	10K	5%	1/10W
R348	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R349	1-216-073-00	METAL CHIP	10K	5%	1/10W
R350	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R351	1-216-073-00	METAL CHIP	10K	5%	1/10W
R352	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R368	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R369	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R370	1-216-073-00	METAL CHIP	10K	5%	1/10W
R371	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R372	1-216-097-91	RES,CHIP	100K	5%	1/10W
R373	1-216-041-00	METAL CHIP	470	5%	1/10W
R374	1-216-041-00	METAL CHIP	470	5%	1/10W
R375	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R376	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R377	1-216-097-91	RES,CHIP	100K	5%	1/10W
R378	1-216-085-00	METAL CHIP	33K	5%	1/10W
R381	1-216-073-00	METAL CHIP	10K	5%	1/10W
R388	1-216-097-91	RES, CHIP	100K	5%	1/10W
R389	1-216-049-91	RES, CHIP	1K	5%	1/10W
R390	1-216-097-91	RES, CHIP	100K	5%	1/10W
R391	1-216-121-91	RES, CHIP	1M	5%	1/10W
R392	1-216-073-00	METAL CHIP	10K	5%	1/10W
R393	1-216-097-91	RES, CHIP	100K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remarks
R394	1-216-097-91	RES, CHIP	100K	5%	1/10W
R395	1-216-025-91	RES, CHIP	100	5%	1/10W
R396	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R397	1-216-025-91	RES, CHIP	100	5%	1/10W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-437-11	CARBON	47K	5%	1/4W
R603	1-249-417-11	CARBON	1K	5%	1/4W F
R604	1-249-437-11	CARBON	47K	5%	1/4W
R605	1-217-151-00	METAL	0.22	10%	2W
R606	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R607	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R608	1-216-091-00	METAL CHIP	56K	5%	1/10W
R609	1-249-389-11	CARBON	4.7	5%	1/4W F
R611	1-249-417-11	CARBON	1K	5%	1/4W F
R612	1-249-437-11	CARBON	47K	5%	1/4W
R613	1-249-417-11	CARBON	1K	5%	1/4W F
R614	1-249-437-11	CARBON	47K	5%	1/4W
R615	1-217-151-00	METAL	0.22	10%	2W
R616	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R617	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R618	1-216-091-00	METAL CHIP	56K	5%	1/10W
R619	1-249-389-11	CARBON	4.7	5%	1/4W F
R621	1-249-417-11	CARBON	1K	5%	1/4W F
R622	1-249-437-11	CARBON	47K	5%	1/4W
R623	1-249-417-11	CARBON	1K	5%	1/4W F
R624	1-249-437-11	CARBON	47K	5%	1/4W
R625	1-217-151-00	METAL	0.22	10%	2W
R626	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R627	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R628	1-216-091-00	METAL CHIP	56K	5%	1/10W
R629	1-249-389-11	CARBON	4.7	5%	1/4W F
R630	1-249-389-11	CARBON	4.7	5%	1/4W F
R631	1-249-389-11	CARBON	4.7	5%	1/4W F
R640	1-249-389-11	CARBON	4.7	5%	1/4W F
R641	1-249-389-11	CARBON	4.7	5%	1/4W F
R650	1-249-389-11	CARBON	4.7	5%	1/4W F
R651	1-249-389-11	CARBON	4.7	5%	1/4W F
R681	1-216-073-00	METAL CHIP	10K	5%	1/10W
R683	1-216-001-00	METAL CHIP	10	5%	1/10W
R685	1-216-001-00	METAL CHIP	10	5%	1/10W
R686	1-216-049-91	RES,CHIP	1K	5%	1/10W
R691	1-211-775-11	FUSIBLE	10	5%	1/4W F
R692	1-249-405-11	CARBON	100	5%	1/4W F
R693	1-249-405-11	CARBON	100	5%	1/4W F
R694	1-249-405-11	CARBON	100	5%	1/4W F
R695	1-249-405-11	CARBON	100	5%	1/4W F
R701	1-216-097-91	RES, CHIP	100K	5%	1/10W
R702	1-216-097-91	RES, CHIP	100K	5%	1/10W
R703	1-216-097-91	RES, CHIP	100K	5%	1/10W
R708	1-216-081-00	METAL CHIP	22K	5%	1/10W
R709	1-216-081-00	METAL CHIP	22K	5%	1/10W
R710	1-216-089-91	RES, CHIP	47K	5%	1/10W
R711	1-249-429-11	CARBON	10K	5%	1/4W
⚠R714	1-215-867-00	METAL OXIDE	470	5%	1W F
R715	1-216-089-91	RES, CHIP	47K	5%	1/10W
⚠R717	1-215-867-00	METAL OXIDE	470	5%	1W F
R722	1-216-049-91	RES, CHIP	1K	5%	1/10W
R730	1-216-097-91	RES, CHIP	100K	5%	1/10W
R731	1-216-073-00	METAL CHIP	10K	5%	1/10W
R732	1-216-097-91	RES, CHIP	100K	5%	1/10W
R733	1-216-097-91	RES, CHIP	100K	5%	1/10W
R734	1-216-097-91	RES, CHIP	100K	5%	1/10W
R735	1-216-077-00	METAL CHIP	15K	5%	1/10W
R736	1-216-077-00	METAL CHIP	15K	5%	1/10W
⚠R737	1-215-889-00	METAL OXIDE	330	5%	2W F
⚠R738	1-215-889-00	METAL OXIDE	330	5%	2W F
R901	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R902	1-216-073-00	METAL CHIP	10K	5%	1/10W
R903	1-216-041-00	METAL CHIP	470	5%	1/10W
R904	1-216-001-00	METAL CHIP	10	5%	1/10W
R905	1-249-381-11	CARBON	1	5%	1/4W F
R907	1-216-049-91	RES, CHIP	1K	5%	1/10W
⚠R913	1-215-865-11	METAL OXIDE	220	5%	1W F
R914	1-216-073-00	METAL CHIP	10K	5%	1/10W
R915	1-216-073-00	METAL CHIP	10K	5%	1/10W
R929	1-216-041-00	METAL CHIP	470	5%	1/10W
R930	1-216-041-00	METAL CHIP	470	5%	1/10W
R941	1-216-073-00	METAL CHIP	10K	5%	1/10W
R942	1-249-405-11	CARBON	100	5%	1/4W F
R943	1-249-405-11	CARBON	100	5%	1/4W F
R1150	1-216-025-91	RES,CHIP	100	5%	1/10W
R1151	1-216-295-91	SHORT	0		
R1152	1-216-295-91	SHORT	0		
R1153	1-216-025-91	RES, CHIP	100	5%	1/10W
R1271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1285	1-216-121-91	RES, CHIP	1M	5%	1/10W
R1286	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1287	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1301	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1302	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1311	1-216-295-91	SHORT	0		
R1318	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1319	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1321	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1322	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1323	1-216-041-00	METAL CHIP	470	5%	1/10W
R1324	1-216-041-00	METAL CHIP	470	5%	1/10W
R1325	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1326	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1327	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1328	1-216-093-00	METAL CHIP	68K	5%	1/10W
R1331	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1339	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1340	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1341	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1343	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1344	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1345	1-216-025-91	RES, CHIP	100	5%	1/10W
R1346	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1347	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1348	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1368	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1369	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1370	1-216-073-00	METAL CHIP	10K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks
R1371	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1372	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1373	1-216-041-00	METAL CHIP	470	5%	1/10W
R1374	1-216-041-00	METAL CHIP	470	5%	1/10W
R1375	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1376	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1377	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1378	1-216-093-00	METAL CHIP	68K	5%	1/10W
R1381	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1389	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1390	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1391	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1393	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1394	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1395	1-216-025-91	RES, CHIP	100	5%	1/10W
R1396	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2150	1-216-025-91	RES, CHIP	100	5%	1/10W
R2151	1-216-295-91	SHORT	0		
R2152	1-216-295-91	SHORT	0		
R2153	1-216-025-91	RES, CHIP	100	5%	1/10W
R2271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2285	1-216-121-91	RES, CHIP	1M	5%	1/10W
R2286	1-216-081-00	METAL CHIP	22K	5%	1/10W
R2287	1-216-081-00	METAL CHIP	22K	5%	1/10W
R2301	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2302	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2311	1-216-295-91	SHORT	0		
R2318	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R2319	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R2320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2321	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R2322	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2323	1-216-041-00	METAL CHIP	470	5%	1/10W
R2324	1-216-041-00	METAL CHIP	470	5%	1/10W
R2325	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2326	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2327	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2328	1-216-093-00	METAL CHIP	68K	5%	1/10W
R2331	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2339	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2340	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2341	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2343	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2344	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2345	1-216-025-91	RES, CHIP	100	5%	1/10W
R2346	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2347	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2348	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2368	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R2369	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R2370	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2371	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R2372	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2373	1-216-041-00	METAL CHIP	470	5%	1/10W
R2374	1-216-041-00	METAL CHIP	470	5%	1/10W
R2375	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2376	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2377	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2378	1-216-093-00	METAL CHIP	68K	5%	1/10W
R2381	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R2389	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2390	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2391	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2393	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2394	1-216-097-91	RES, CHIP	100K	5%	1/10W
R2395	1-216-025-91	RES, CHIP	100	5%	1/10W
R2396	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
		< RELAY >			
RY301	1-515-614-11	RELAY			
RY302	1-515-614-11	RELAY			
RY303	1-515-614-11	RELAY			
RY701	1-755-142-11	RELAY			
RY702	1-755-142-11	RELAY			
RY901	1-515-840-11	RELAY			
RY1301	1-515-614-11	RELAY			
RY2301	1-515-614-11	RELAY			
		< THERMISTOR >			
TH601	1-807-796-11	THERMISTOR			
		< VIBRATOR >			
X181	1-577-082-11	VIBRATOR, CERAMIC 4MHz			
X191	1-767-576-11	VIBRATOR, CRYSTAL 12.288MHz			
X201	1-567-970-11	VIBRATOR, CRYSTAL 24.576MHz			
**********					
*	A-4407-554-A	PANEL BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-999-352-01	HOLDER (FL)			
		< CAPACITOR >			
C601	1-125-623-11	DOUBLE LAYER	0.22F	0	5.5V
C602	1-126-382-11	ELECT	100uF	20%	10V
C603	1-164-159-11	CERAMIC	0.1uF		50V
C604	1-164-159-11	CERAMIC	0.1uF		50V
C605	1-124-465-00	ELECT	0.47uF	20%	50V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-164-159-11	CERAMIC	0.1uF		50V
C608	1-164-159-11	CERAMIC	0.1uF		50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-162-306-11	CERAMIC	0.01uF	20%	16V
C611	1-162-306-11	CERAMIC	0.01uF	20%	16V
C612	1-162-306-11	CERAMIC	0.01uF	20%	16V
C621	1-124-261-00	ELECT	10uF	20%	50V
C622	1-164-159-11	CERAMIC	0.1uF		50V
C623	1-126-382-11	ELECT	100uF	20%	10V
C624	1-164-159-11	CERAMIC	0.1uF		50V
C631	1-162-290-31	CERAMIC	470PF	10%	50V
C651	1-162-306-11	CERAMIC	0.01uF	20%	16V
C652	1-126-382-11	ELECT	100uF	20%	10V
C661	1-126-382-11	ELECT	100uF	20%	10V
C662	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
* CN601	1-568-858-11	SOCKET, CONNECTOR 15P			
CN602	1-774-282-11	SOCKET, CONNECTOR 6P			
CN603	1-564-505-11	PLUG, CONNECTOR 2P			

PANEL | **PRIMARY** | **SECONDARY**

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D601	8-719-200-02	DIODE 10E2	
D602	8-719-200-02	DIODE 10E2	
D603	8-719-911-19	DIODE 1SS119	
D604	8-719-200-02	DIODE 10E2	
D651	8-719-069-45	DIODE SELU5E23C-TP15 (DOLBY DIGITAL)	
D652	8-719-069-45	DIODE SELU5E23C-TP15 (DOLBY DIGITAL)	
D654	8-719-058-03	DIODE SEL5423E-TP15 (SET UP)	
D655	8-719-058-03	DIODE SEL5423E-TP15 (COAXIAL)	
D656	8-719-058-03	DIODE SEL5423E-TP15 (OPTICAL)	
D657	8-719-058-03	DIODE SEL5423E-TP15 (SURROUND ON/OFF)	
D658	8-719-058-04	DIODE SEL5223S-TP15 (ON/STANDBY)	
		< FILTER >	
FL601	1-517-771-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-535-51	IC MB90673PF-G-264-BND	
IC602	8-759-512-47	IC SN755721	
IC603	8-759-512-47	IC SN755721	
IC604	8-759-165-80	IC PST600C-T	
IC605	8-759-459-83	IC NJL55H400A	
IC606	8-759-962-08	IC BA6208	
IC607	8-759-454-04	IC MC74HCU04AN	
		< COIL >	
L601	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q601	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q602	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q603	8-729-900-80	TRANSISTOR DTC114ES	
Q604	8-729-900-80	TRANSISTOR DTC114ES	
Q605	8-729-900-80	TRANSISTOR DTC114ES	
Q606	8-729-900-80	TRANSISTOR DTC114ES	
Q607	8-729-900-80	TRANSISTOR DTC114ES	
Q609	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R601	1-247-807-31	CARBON 100 5% 1/4W	
R602	1-249-435-11	CARBON 33K 5% 1/4W	
R603	1-249-441-11	CARBON 100K 5% 1/4W	
R604	1-249-429-11	CARBON 10K 5% 1/4W	
R607	1-249-433-11	CARBON 22K 5% 1/4W	
R608	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R609	1-249-433-11	CARBON 22K 5% 1/4W	
R610	1-247-807-31	CARBON 100 5% 1/4W	
R611	1-249-411-11	CARBON 330 5% 1/4W	
R612	1-249-413-11	CARBON 470 5% 1/4W	F
R613	1-249-415-11	CARBON 680 5% 1/4W	F
R614	1-249-417-11	CARBON 1K 5% 1/4W	F
R615	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R616	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R617	1-249-429-11	CARBON 10K 5% 1/4W	
R618	1-249-411-11	CARBON 330 5% 1/4W	
R619	1-249-413-11	CARBON 470 5% 1/4W	F
R620	1-249-415-11	CARBON 680 5% 1/4W	F
R621	1-249-417-11	CARBON 1K 5% 1/4W	F
R622	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R623	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R625	1-249-441-11	CARBON 100K 5% 1/4W	
R628	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R629	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R651	1-247-807-31	CARBON 100 5% 1/4W	
R652	1-247-807-31	CARBON 100 5% 1/4W	
R654	1-247-807-31	CARBON 100 5% 1/4W	
R655	1-247-807-31	CARBON 100 5% 1/4W	
R656	1-247-807-31	CARBON 100 5% 1/4W	
R657	1-247-807-31	CARBON 100 5% 1/4W	
R663	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R664	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R665	1-249-385-11	CARBON 2.2 5% 1/6W	F
R682	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R684	1-249-429-11	CARBON 10K 5% 1/4W	
		< SWITCH >	
S610	1-572-184-11	SWITCH, KEYBOARD (POWER)	
S611	1-572-184-11	SWITCH, KEYBOARD (COAXIAL)	
S612	1-572-184-11	SWITCH, KEYBOARD (OPTICAL)	
S613	1-572-184-11	SWITCH, KEYBOARD (SET UP)	
S614	1-572-184-11	SWITCH, KEYBOARD (CURSOR MODE)	
S615	1-572-184-11	SWITCH, KEYBOARD (DISPLAY)	
S619	1-572-184-11	SWITCH, KEYBOARD (SURROUND ON/OFF)	
S620	1-572-184-11	SWITCH, KEYBOARD (UP)	
S621	1-572-184-11	SWITCH, KEYBOARD (DOWN)	
S622	1-572-184-11	SWITCH, KEYBOARD (BASS BOOST)	
		< VIBRATOR >	
X601	1-577-082-11	VIBRATOR, CERAMIC 4MHz	
**********			
*	1-669-461-11	PRIMARY BOARD **********	
**********			
*	1-669-462-11	SECONDARY BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CAPACITOR >	
C925	1-136-165-00	FILM 0.1uF 5% 50V	
		< CONNECTOR >	
* CN992	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
		< FUSE >	
⚠F995	1-532-505-51	FUSE TIME LAG 5A 250V	
		< RESISTOR >	
⚠R991	1-217-637-00	FUSIBLE 1 5% 1/4W	F
⚠R992	1-219-122-91	FUSIBLE 0.33 5% 1/4W	F
⚠R993	1-219-122-91	FUSIBLE 0.33 5% 1/4W	F
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remarks
*	1-669-459-11	SPEAKER BOARD **********	
		< CONNECTOR >	
CN651	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
		< TERMINAL >	
TB651	1-537-510-21	TERMINAL BOARD	(SPEAKER/CENTER SPEAKER)
**********			
*	1-669-460-11	SWITCH BOARD **********	
		< CONNECTOR >	
* CN652	1-568-824-11	SOCKET, CONNECTOR 5P	
* CN653	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)	
* CN654	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)	
		< SWITCH >	
S651	1-692-686-11	SWITCH, SLIDE (SPEAKER SELECT)	
**********			
*	1-669-458-11	VOLUME BOARD **********	
		< CONNECTOR >	
CN604	1-564-505-11	PLUG, CONNECTOR 2P	
CN605	1-568-802-11	SOCKET, CONNECTOR 19P	
		< VARIABLE RESISTOR >	
RV601	1-225-446-11	RES, VAR, CARBON 100K × 6	(MASTER VOLUME)
**********			

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS **********	
6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
9	1-773-108-11	WIRE (FLAT TYPE) (19 CORE)	
11	1-771-358-11	SWITCH, TACTILE (WITH LEAD)	
⚠53	1-431-855-11	TRANSFORMER, POWER	
57	1-769-868-11	WIRE (FLAT TYPE) (5 CORE)	
⚠58	1-575-651-21	CORD, POWER	
64	1-698-792-11	FAN, DC	
⚠67	1-569-008-21	ADAPTOR, CONVERSION 2P	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-475-788-21	COMMANDER, STANDARD (RM-MS30E)	
	1-558-271-11	CORD, CONNECTION	
	1-574-264-11	CORD, OPTICAL PLUG	
	1-574-314-11	CORD (WITH CONNECTOR)	
	3-862-889-11	MANUAL, INSTRUCTION (ENGLISH, CHINESE)	
	3-862-889-21	MANUAL, INSTRUCTION (FRENCH, SPANISH)	
	4-981-643-21	COVER, BATTERY (FOR RM-MS30E)	
**********			
		********** HARDWARE LIST **********	
#1	7-685-647-79	SCREW +BVTP 3 × 10 TYPE2 N-S	
#2	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 IT-3	
#3	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#4	7-685-872-09	SCREW +BVTT 3 × 8 (S)	
#5	7-685-881-09	SCREW +BVTT 4 × 8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

9-922-821-11

Sony Corporation
Home A&V Products Company

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